

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 11, 2004, 04:01:33 ; Search time 3521 Seconds

(without alignments)
6339.318 Million cell updates/sec

Perfect score: 472

Sequence: 1 AGCCACCCAGTGGCT.....ACGTTCTGAACTCAAGCA 472

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 4526729 seqs, 23644849745 residues

Total number of hits satisfying chosen parameters:

9053458

Minimum DB seq length: 0

Maximum DB seq length: 20000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : GenBnbl:*

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2: gb_htg:*

3: gb_in:*

4: gb_om:*

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13: gb_un:*

14: gb_vl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB	ID	Description
1	472	100.0	472	6	BD195486		BD195486 Adenovirus
2	472	100.0	472	6	BD195520		BD195520 Adenovirus
3	472	100.0	472	6	AR51687		AR51687 Sequence
4	472	100.0	472	6	AR51733		AR51733 Sequence
5	471	99.8	3500	6	AX705342		AX705342 Sequence
6	471	99.8	11288	6	AR134885		AR134885 Sequence
7	471	99.8	11288	6	AR182304		AR182304 Sequence
8	471	99.8	11288	6	AR310519		AR310519 Sequence
9	471	99.8	11288	6	AR479027		AR479027 Sequence
10	471	99.8	11288	6	AX269130		AX269130 Sequence
11	471	99.8	11288	6	221818	H. sapiens C	221818 H. sapiens C
12	471	99.8	15056	6	BD195539	Adenovirus	BD195539 Adenovirus
13	471	99.8	15056	6	BD224258		BD224258 Adenovirus
14	471	99.8	15056	6	AR266427		AR266427 Sequence
15	471	99.8	15056	6	AR474484		AR474484 Sequence
16	471	99.8	15056	6	AX259954		AX259954 Sequence
17	471	99.8	15056	6	AX262359		AX262359 Sequence
18	471	99.8	39706	6	AC008999	Homo sapi	AC008999 Homo sapi
19	455.8	6339.318	Million cell updates/sec	9	X62151	H. sapiens C	X62151 H. sapiens C

ALIGNMENTS

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21	455.8	96.6	4138	6	AX825804	Sequence	
22	432.4	91.6	3281	6	A37261	Sequence 1	
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24	278.2	58.9	3500	6	AX705383	Sequence	
25	271.8	57.6	3500	6	AX705405	Sequence	
26	266.2	56.4	4138	6	AX822351	Sequence	
27	266.2	56.4	4138	6	AX825991	Sequence	
28	264.8	56.1	645	9	HSGCM2PRO	Sequence C	
c	29	263.2	55.8	39753	9	AC005797	Homo sapi
c	30	263	55.7	3500	6	AX705384	Sequence
c	31	259.8	55.0	4138	6	AX822479	Sequence
c	32	259.8	55.0	4138	6	AX826119	Sequence
c	33	256.6	54.4	3500	6	AX822352	Sequence
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c	41	156.6	33.2	2073	9	HUMCEANCA	
c	42	134	28.4	38235	9	AC04559	
c	43	128.8	27.3	2450	9	HSACGMI	
c	44	120.8	25.6	39801	9	AC005955	
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RESULT 1	BD195486	LOCUS	BD195486	DEFINITION	Adenovirus vectors containing heterologous transcription regulatory elements and methods of using same.
		ACCESSION	BD195486	VERSION	BD195486.1 GI:33005256
		KEYWORDS	JP 2002514074-A/7.		
		SOURCE			unidentified
		ORGANISM			unclassified
		REFERENCE	1 (bases 1 to 472)		
		AUTHORS	Henderson,D.R., Yu,D.C. and Lamparski,H.G.		
		TITLE			
		JOURNAL	Patent: JP 2002514074-A 7 14-MAY-2002; CALYDON INC		
		COMMENT	OS Unidentified		
		PD	JP 2002514074-A/7		
		PF	14-MAY-2002		
		PF	03-MAR-1998 JP 1998538674		
		PR	03-MAR-1998 US 60/039762-03-MAR-1997 US 60/039763 PR		
		PR	04-AUG-1997 US 60/051523-02-MAR-1998 US 09/033556 PI DANIEL R. HENDERSON, DE CHAO YU HENRY G LAMPARSKI PC C12N15/86, C12N5/10, A61K47/48, C12N11/08 CC Strandedness: Single;		
		CC	Topology: Linear;		
		CC	Adenovirus vectors containing heterologous transcription regulatory elements and methods of using same		
		CC	elements and methods of using same		
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		Best Local Similarity	100.0%;		
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SOURCE Unknown.
 ORGANISM Unknown.
 Unclassified.
 REFERENCE 1 (bases 1 to 11268)
 AUTHORS Richards, C. Ann and Huber, B.
 TITLE Transcriptional regulatory sequence of carcinoembryonic antigen for expression targeting
 JOURNAL Patent: US 6194211-A 1 27-FEB-2001;
 FEATURES Location/Qualifiers 1..11288/
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Query Match 99.8%; Score 471; DB 6; Length 11288;
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 Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Unclassified.

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Qy 61 GGCATATCCACCTCCAGCCCTGGAGAGACCCGACCTCTGG 120
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RESULT 8
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 DEFINITION Sequence 4 from patent US 6300490.
 ACCESSION AR370519
 VERSION AR370519.1
 KEYWORDS .
 SOURCE .
 ORGANISM Unknown.
 Unclassified.
 UNCLASSIFIED .
 REFERENCE 1 (bases 1 to 11288)
 AUTHORS Huber, B., Richards, C. A. and Austin, E. A.
 TITLE Molecular constructs comprising a carcinoembryonic antigen (CEA) transcriptional regulatory region
 JOURNAL Patent: US 6300490-A 4 09-OCT-2001;
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	ACCESSION	AX269130					
	VERSION	AX269130.1	GI:16542049				
	KEYWORDS						
	SOURCE	Homo sapiens (human)					
	ORGANISM	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo					
	REFERENCE	Vile,R.G., Harrington,K., Murphy,S. and Bateman,A.					
	AUTHORS						
	TITLE	Compositions and methods for tissue specific gene regulation					
		Patent: WO 0174861-A 1 11-OCT-2001;					
		MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH (US)					
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RESULT 11
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 LOCUS HSGRCANTA 11288 bp DNA linear PRI 29-MAY-1996
 DEFINITION H. sapiens carcinoembryonic antigen gene.
 ACCESSION 221618.1 GI:437783
 VERSION 221618.1
 KEYWORDS carcinoembryonic antigen.
 SOURCE Homo sapiens (Human)
 ORGANISM Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Homo.
 REFERENCE 1 Schrewe, H., Thompson, J.J., Bona, M., Hefta, L.J., Maruya, A., Hassauer, M., Shirey, J.E., von Kleist, S. and Zimmerman, W.
 AUTHORS TITLE Cloning of the complete gene for carcinoembryonic antigen: analysis of its promoter indicates a region conveying cell type-specific expression.
 JOURNAL Mol. Cell. Biol. 10 (6), 2738-2748 (1990)
 MEDLINE 90288861
 PUBMED 2342461
 REMARK (sites)
 REFERENCE 2 (bases 1 to 11288)
 AUTHORS Richards, C.A., Wolberg, A.S. and Huber, B.E.
 TITLE The transcriptional control region of the human carcinoembryonic antigen gene: DNA sequence and homology studies
 JOURNAL DNA Seq. 4 (3), 185-196 (1993)
 MEDLINE 94241470
 PUBMED 8161821
 REFERENCE 3 (bases 1 to 11288)
 AUTHORS Richards, C.A., Austin, E.A. and Huber, B.E.
 TITLE Transcriptional regulatory sequences of carcinoembryonic antigen: identification and use with cytosine deaminase for tumor-specific gene therapy
 JOURNAL Hum. Gene Ther. 6 (7), 881-893 (1995)
 MEDLINE 96097111
 PUBMED 7578407
 REFERENCE 4 (bases 1 to 11288)
 AUTHORS Richards, C.A.
 TITLE Direct Submission
 JOURNAL Submitted (24-FEB-1993) Richards C. A., Burroughs Wellcome Co., Cell Biology, 3030 Cornwallis Rd, Research Triangle Park, North Carolina, USA, 27709
 COMMENT Overlapping sequence: U17131.
 FEATURES Location/Qualifiers 1..11288
 Source /organism="Homo sapiens"
 /mol_type="genomic DNA"
 /db_xref="Taxon:9606"
 /chromosome="19"
 /clone="lambdaCPA1"
 /clone lib="library L119NL01 from ATCC"
 /germline
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 /rpt_type="DISPERSED
 2106..2155
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CDS /citation=[1]
 10804..10938
 /citation=[1]
 /codon_start=1
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 /protein_id="ICAA7884.1"
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 /translation="MESSAPHRWCIPWQRLLTGBERTTWERGGSSWGLLQRTGL"
 intron 10868..11288
 /citation=[1]

ORIGIN Query Match 99.8%; Score 471; DB 9; Length 11288;
 Best Local Similarity 100.0%; Pred. No. 1..9e-142;
 Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCCACCACCCAGTAGGCCCTTTCTAGGCCCCAGAGGCCACCTCTGTCACCTTCCTGTTG 60
 Db 10294 AGCCACCACCCAGTAGGCCCTTTCTAGGCCCCAGAGGCCACCTCTGTCACCTTCCTGTTG 10353

Qy 61 GGCATCATCCCACCTTCCAGAGCCTGGAGAGCATGGGAGACGGGACCCCTGTGGG 120
 Db 10354 GGCATCATCCCACCTTCCAGAGCCTGGAGAGCATGGGAGACGGGACCCCTGTGGG 10413

Qy 121 TTTCCTGTACAAGGAATAATCCCTGTTGAGACAGCCAGAGCAGAGCAG 180
 Db 10414 TTTCCTGTACAAGGAATAATCCCTGTTGAGACAGCCAGAGCAGACAG 10473

Qy 181 CAGAGTCAGACTGGAGACCTGGGATGGGGTCCATCAGCTT 240
 Db 10474 CAGAGTCAGACTGGGAGACAGTTGTTCTCCAGGGATGGGGTCCATCAGCTT 10533

Qy 241 GCGGAAAGATTGTCGTGAGAACGAAATAAGAGGAAAAAGAGGAGCAAAAGA 300
 Db 10534 GCGGAAAGATTGTCGTGAGAACGAAATAAGAGGAAAAAGAGGAGCAAAAGA 10593

Qy 301 GGCAGAAATGAGGGAGGGAGAGGACACCTGATAAGACCAACCCATGACCCA 360
 Db 10594 GGCAGAAATGAGGGAGGGAGAGGACACCTGATAAGACCAACCCATGACCCA 10653

Qy 361 CGTGAATGCTGAGAAATGACTCTGCTCCAGGAGACTCAGGAGAACTGAGA 420
 Db 10654 CGTGAATGCTGAGAAATGACTCTGCTCCAGGAGACTCAGGAGAACTGAGA 10713

Qy 421 GCAGACAGACAGTACAGCAGCTTACAGAACCTGCTGGAACTCAGTCAGC 471
 Db 10714 GCAGACAGACAGTACAGCAGCTTACAGAACCTGCTGGAACTCAGTCAGC 10764

RESULT 12
 BD195539 LOCUS BD195539 15056 bp DNA linear PAT 17-JUL-2003
 DEFINITION Adenovirus vectors specific for cells expressing carcinoembryonic antigens and methods of use thereof.
 ACCESSION BD195539
 VERSION 1.0
 KEYWORDS
 SOURCE unidentified
 ORGANISM unidentified
 unclassified
 REFERENCE 1 (bases 1 to 15056)
 AUTHORS Lamparski, H.G., Henderson, D.R. and Schuur, B.R.
 TITLE Adenovirus vectors specific for cells expressing carcinoembryonic antigens and methods of use thereof
 JOURNAL PATENT: JP 2002514075 A/20.
 CALYDON INC
 COMMENT OS unidentified
 JP 2002514075 A/20
 PD 14-MAY-2002
 PP 03-MAR-1998 JP 1998538697

PR	03-MAR-1997	US	60/039763-02-MAR-1998	US	60/039763	PI
HENRY G LAMPARSKI, DANIEL R HENDERSON, ERIC R SCHUTUR	PC					
Strain/Species: Single;						
CC Topology: Linear;						
CC Adenovirus vectors specific for cells expressing CC						
CC and methods of use thereof						
FH Key source	1. .15056	/organism='Unidentified'				
FT FT	Location/Qualifiers					
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Best Local Similarity	100.0%	Pred. No. 2e-142;				
Matches 471;	Conservative 0;	Mismatches 0;				
	Indels 0;	Gaps 0;				
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Qy	1	AGCCACCAACCAGTGAACGCCCTTTCTAGGCCACCTCTCTACCTTCCTGTTG 60				
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Db	14122	GGCATCATCCACCTTCAGGCCCTGAGAGATGGAGACCCGGAGACAGACAG 14181				
Qy	121	TTCCTCTGTCACAAGGAAATAATCCCTCTGGTGTGACAGACCCAGAGACAG 180				
Db	14182	TTCCTCTGTCACAAGGAAATAATCCCTCTGGTGTGACAGACCCAGAGACAG 14241				
Qy	181	CAGAGTCAGACTGGGAGACAGGTTCTCCAGGGCATGCCATCCACCTT 240				
Db	14242	CAGAGTCAGACTGGGAGACAGGTTCTCCAGGGCATGCCATCCACCTT 14301				
Qy	241	GCCGAAAATGAGATTGTCTGAGGACTGAAATAGAAGGAAAAGAGGAGGAAAGA 300				
Db	14302	GCCGAAAATGAGATTGTCTGAGGACTGAAATAGAAGGAAAAGAGGAGGAAAGA 14361				
Qy	301	GGCAGAAAATGAGGGAGGGGAGACAGGACACTGAAATAAGGACACCCATGCCA 360				
Db	14362	GGCAGAAAATGAGGGAGGGGAGACAGGACACTGAAATAAGGACACCCATGCCA 14421				
Qy	361	CGTGTATGCTGAGAAGTACTCTGCTCTAGGAGAGCTCAGGGAGGGAGGACCA 420				
Db	14422	CGTGTATGCTGAGAAGTACTCTGCTCTAGGAGAGCTCAGGGAGGGAGGACCA 14481				
Qy	421	CGACGACGAGACTGTCAGGCCTTGACAAACGTTCTGGAACCTCAAGC 471				
Db	14482	CGACGACGAGACTGTCAGGCCTTGACAAACGTTCTGGAACCTCAAGC 14532				
RESULT 13						
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LOCUS						
DEFINITION						
ACCESSION	BD224258					
VERSION	BD224258.1	GT:33034028				
KEYWORDS						
SOURCE	Homo sapiens (human)					
ORGANISM	Homo sapiens					
REFERENCE						
AUTHORS	YU, D. C. and HENDERSON, D. R.					
TITLE	Adenovirus vectors containing cell status-specific response elements and methods of use thereof					
JOURNAL	ALYDON TNC					

of use thereof
Patent: US 6495130-A 10 17-DEC-2002;
Location/Qualifiers
1. 15056
/organism="unknown"
/mol_type="genomic DNA"

ORIGIN

Query Match 99.8%; Score 411; DB 6; Length 15056;
Best Local Similarity 100.0%; Pred. No. 2e-142;
Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCCACCAACCGTGAACCTTTCTAGCCCCAGAGCCACCTCTGTACCTTCCTGT 60
Db 14052 AGCCACCAACCGTGAACCTTTCTAGCCCCAGAGCCACCTCTGTACCTTCCTGT 14121
Qy 61 GGCATCATCCACCTTCCAGAAGCCCTGAGAGCATGGGGACCCGGACCTCTGTGG 120
Db 14122 GGCATCATCCACCTTCCAGAAGCCCTGAGAGCATGGGGACCCGGACCTCTGTGG 14181
Qy 121 TTCTCTGTCAAGGAATAATCCCTGTGAGACCCAGAAGCAGACAG 180
Db 14182 TTCTCTGTCAAGGAATAATCCCTGTGAGACCCAGAAGCAGACAG 14241
Qy 181 CAGAGTCAAGCTGGAGACAGTGTCCAGGGATGGGGACAGGACACCTGAATAAG 360
Db 14242 CAGAGTCAAGCTGGAGACAGTGTCCAGGGATGGGGACAGGACACCTGAATAAG 14322
Qy 241 GCGAAAGAGATTTCTGAGGAATCTGAATAAGAGGAGGACAAAGA 300
Db 14302 GCGAAAGAGATTTCTGAGGAATCTGAATAAGAGGAGGACAAAGA 14361
Qy 301 GGCAGAAATGAGGGGGAGAGAGACTGAATAAGAGGAGGACAAAGA 360
Db 14362 GCGAAAGATGAGGGGGAGAGAGACTGAATAAGAGGAGGACAAAGA 14421
Qy 361 CGTATGTCTGAGAGTACTCTGCCTTGAAGAGACATGGGAGGGAGGACA 420
Db 14422 CGTATGTCTGAGAGTACTCTGCCTTGAAGAGACATGGGAGGGAGGACA 14481
Qy 421 GCAGACCAAGAGACTCACAGGCTTGAAGAAACGTTCTGGAACTCAAGC 471
Db 14482 GCAGACCAAGAGACTCACAGGCTTGAAGAAACGTTCTGGAACTCAAGC 14532

Search completed: December 11, 2004, 07:58:34
Job time : 3523 secs

RESULT 15

AR474484 AR474484 15056 bp DNA linear PAT 20-FEB-2004
LOCUS Sequence 14 from patent US 6692736.
DEFINITION Cell-specific adenovirus vectors comprising an internal ribosome entry site
VERSION AR474484.1 GI:42713165
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE Yu, D.-C., Li, Y., Little, A.S. and Henderson, D.R.
AUTHORS Title: Cell-specific adenovirus vectors comprising an internal ribosome entry site
PATENT: US 6692736-A 14 17-FEB-2004;
JOURNAL Location/Qualifiers
FEATURES 1. 15056
/organism="unknown"
/mol_type="genomic DNA"

ORIGIN

Query Match 99.8%; Score 411; DB 6; Length 15056;
Best Local Similarity 100.0%; Pred. No. 2e-142;
Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCCACCAACCGTGAACCTTTCTAGCCCCAGAAGCCACCTCTGTACCTTCCTGTGG 60
Db 14052 AGCCACCAACCGTGAACCTTTCTAGCCCCAGAAGCCACCTCTGTACCTTCCTGTGG 14121

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 11, 2004, 03:58:23 ; Search time 428 Seconds
(without alignments)

5789.081 Million cell update/sec

Title: US-10-045-116-1

Perfect score: 472

Sequence: 1 AGCACACCCAGTGAGCCT.....ACGTTCTGAACTCAAGCA 472

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 4134886 seqs, 2624710521 residues

Total number of hits satisfying chosen parameters: 8269772

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : N_Geneseq_23Sep04:*

1: geneseqm1980s:*

2: geneseqm190s:*

3: geneseqm200s:*

4: geneseqm2001s:*

5: geneseqm201bs:*

6: geneseqm202bs:*

7: geneseqm2022bs:*

8: geneseqm203bs:*

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10: geneseqm2001cs:*

11: geneseqm2003ds:*

12: geneseqm2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB ID	Description	
1	472	100.0	472	2	AAV52944	Aav52944 CEA trans	
2	472	100.0	472	12	AD136414	Ad136414 Human car	
3	472	100.0	472	12	AD136390	Ad136390 Human car	
4	471	99.8	3500	8	ACF62762	ACF62762 Human CEA	
5	471	99.8	11288	2	AAQ90512	AAQ90512 CEA clone	
6	471	99.8	11288	5	AAVS14778	AAVS14778 Human car	
7	471	99.8	15056	2	AAV52967	AAV52967 Carcinoem	
8	471	99.8	15056	3	AAZ99333	AAZ99333 DNA seque	
9	471	99.8	15056	3	AAA46851	AAA46851 Nucleotid	
10	471	99.8	15056	5	AAH43620	AAH43620 CEA TRE	
11	471	99.8	15056	5	AAFP87238	AAFP87238 CEA TRE f	
12	471	99.8	15056	6	ABK99582	ABK99582 Prostate-	
13	471	99.8	15056	8	ACD07309	ACD07309 Human car	
14	455.8	96.6	4138	10	ADBF51000	ABF51000 CEA Genom	
15	432.4	91.6	3281	10	ADCS7109	AC37109 DNA of a	
16	335.9	76.1	14556	2	AAQ90511	AAQ90511 CEA Genom	
17	350.4	74.2	425	8	ACCA7273	ACCA7273 hTERT gen	
18	278.2	58.9	3500	8	ACF62803	ACF62803	
19	271.8	57.6	3500	8	ACF62803	ACF62803	
20	266.2	56.4	4138	10	ADB51187	ADB51187	
c	21	263	55.7	3500	8	ACF62804	ACF62804

ALIGNMENTS

RESULT 1	
ID	AAV52944 standard; DNA; 472 BP.
XX	
AC	AAV52944;
XX	
DT	21-DEC-1998 (first entry)
XX	
DE	CEA transcriptional regulatory element (CEA-TRE).
XX	
KW	Carcinoembryonic antigen; transcriptional regulatory element; CEA-TRE; human
XX	
OS	Homo sapiens.
XX	
PN	W09839467-12.
XX	
PD	11-SEP-1998.
XX	
PF	03-MAR-1998; 98WO-US004133.
XX	
PR	03-MAR-1997; 97US-0039763P.
XX	
PR	02-MAR-1998; 97US-00333555.
XX	
PA	(CAYL-) CALYDON INC.
XX	
PI	Lamparski HG, Henerson DR, Schuur ER;
XX	
DR	WPI; 1998-495862/42.
XX	
CC	New adenovirus vectors, particularly for cancer therapy - comprising adenovirus gene under transcriptional control of carcinoembryonic antigen transciptional regulatory element.
CC	Claim 13; Page 62-63; 95pp; English.
CC	This 472 nucleotide fragment comprises nucleotides -402 to +69 of the human carcinoembryonic antigen transcriptional regulatory element (CEA-TRE). It was isolated from human genomic DNA by PCR (see AAV52945-46).
CC	The CEA-TRE is capable of mediating gene expression specific to cells capable of expressing CEA or capable of CEA-TRE-mediated transcription. A claimed replication-competent adenovirus (Ad) vector comprises an Ad gene under transcriptional control of a CEA-TRE. Also claimed are: (1) a host cell transformed with a Ad vector as above; (2) a method of making a

CC masked Ad, and (3) an Ad complexed with a masking agent. By providing for transcriptional initiating regulation dependent upon CEA expression, the virus replication can be restricted to target cells which allow a CEA-TRE to function, particularly carcinoma cells expressing CEA. The vectors can be used to detect and monitor samples for the presence of cells that allow a CEA-TRE to function, and to selectively kill such cells, especially malignant cells. Preferred vectors contain a CEA-TRE comprising nucleotides 313-472 or 105-472 of the 472 nucleotide fragment, especially comprising an enhancer and/or a promoter of the CEA gene.

XX Sequence 472 BP; 142 A; 125 C; 134 G; 71 T; 0 U; 0 Other;

SQ Query Match 100.0%; Score 472; DB 2; Length 472;

Best Local Similarity 100.0%; Pred. No. 1.6e-126;

Matches 472; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 AGCCACCCAGTGAAGCTTCTAGCCCCAGGCCACCTCTGTACCTTCCCTG 60

Db 1 AGCCACCCAGTGAAGCTTCTAGCCCCAGGCCACCTCTGTACCTTCCCTG 60

Qy 61 GGATCATCCCACCTTCCAGAGCCCTGGAGAGCATGGAGACCCGGACCTCTGCG 120

Db 61 GGATCATCCCACCTTCCAGAGCCCTGGAGAGCATGGAGACCCGGACCTCTGCG 120

Qy 121 TTCTCTGTCAAAAGAAATAATCCCCTGTGTGAGACCCAGAGAACACAG 180

Db 121 TTCTCTGTCAAAAGAAATAATCCCCTGTGTGAGACCCAGAGAACACAG 180

Qy 181 CAGGTTGACTGGGAGAGAGGGTGTCTCCAGGGATGGGGCTCATCCACCTT 240

Db 181 CAGGTTGACTGGGAGAGAGGGTGTCTCCAGGGATGGGGCTCATCCACCTT 240

Qy 241 GCGAAAGAAGATTTCTGAGGACTGAAATAGGGAAAGGGAAAGAAAGA 300

Db 241 GCGAAAGAAGATTTCTGAGGACTGAAATAGGGAAAGGGAAAGAAAGA 300

Qy 301 GGCGAAATGAGGGGGAGAGGGAGACCTGTAAAGACACCATGACCA 360

Db 301 GGCGAAATGAGGGGGAGAGGGAGACCTGTAAAGACACCATGACCA 360

Qy 361 CGTGTGGAGAGAGACTCTCCCTGGAGAGACCTGGAGAGGGAAAGCA 420

Db 361 CGTGTGGAGAGAGACTCTCCCTGGAGAGACCTGGAGAGGGAAAGCA 420

Qy 421 GCAGACAGACACTCACAGCAGCTGAAACGTTCTGGAACATCAAGCA 472

Db 421 GCAGACAGACACTCACAGCAGCTGAAACGTTCTGGAACATCAAGCA 472

RESULT 2

AD136414 standard; DNA; 472 BP.

XX AD136414;

XX DT 22-APR-2004 (first entry)

XX DE Human carinoembryonic antigen transposon response element DNA SeqID7.

XX DS: carinoembryonic antigen; CEA: human; prostate;

XX transcriptional response element; TRE; polyethylene glycol; PEG;

XX masking agent; tumour cell growth; proliferation; psoriatic lesion;

XX wound healing; hyperplasia; cancer; cytostatic; antipsoriatic; vulnery.

OS Homo sapiens.

XX US2003152553-A1.

XX PN 14-AUG-2003.

XX PP 02-MAY-2002; 2000US-00139099.

XX PR 14-JUN-1995; 95US-00495034.

PR 26-JUN-1996; 96US-006659753.

PR 03-MAR-1997; 97US-0039397P.

PR 03-MAR-1997; 97US-0039762P.

PR 03-MAR-1997; 97US-0039763P.

PR 02-MAR-1998; 98US-00033333.

PR 02-MAR-1998; 98US-0033428.

PR 02-MAR-1998; 98US-0033555.

PR 10-SEP-1998; 98US-00151376.

PR 02-JUN-2000; 2000US-0050591.

XX (LITTLE) LITTLE A S.

PA (LAMP/) LAMPARSKI H G.

PA (HEND/) HENDERSON D R.

PA (SCHU/) SCHUUR E R.

XX Little AS, Lamparski HG, Henderon DR, Schuur ER;

XX PA (LAMP/) LAMPARSKI H G.

PA (HEND/) HENDERSON D R.

PA (SCHU/) SCHUUR E R.

XX DR WPI; 2004-119002/12.

XX PT Composition comprising replication competent adenovirus having adenovirus gene essential for replication under transcriptional control of cell type specific transcriptional response element and masking agent.

XX PS Disclosure; SEQ ID NO 7; 115pp; English.

XX CC This invention relates to a novel composition that contains a replication competent adenovirus capable of transfecting target host cells.

CC Specifically, it comprises an adenoviral gene essential for replication (E1A, E1B or E4), which is under the transcriptional control of a prostate specific transcriptional response element (PSE) and polyethylene glycol (PEG) as the masking agent. The present invention describes this composition as useful for suppressing tumour cell growth and for lowering the levels of tumour cell markers. It can also be used for introducing transient expression that may be involved in treating undesired cell proliferations other than tumours, such as psoriatic lesions and wound healing. In addition, it is useful for detecting cells where a cell type-specific TRE is functional in a biological sample and for treating prostate-associated diseases such as hyperplasia and cancer. As such, these compositions exhibit cytostatic, antipsoriatic and vulnery activities. This polynucleotide sequence is the human carinoembryonic antigen (CEA) TRE DNA of the invention. NOTE: This sequence is identical to that given as SeqID 54.

XX SQ Sequence 472 BP; 142 A; 125 C; 134 G; 71 T; 0 U; 0 Other;

Query Match 100.0%; Score 472; DB 12; Length 472;

Best Local Similarity 100.0%; Pred. No. 1.6e-126;

Matches 472; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCCACCCAGTGAAGCTTCTAGCCCCAGGCCACCTCTGTACCTTCCCTGCGTGG 60

Db 1 AGCCACCCAGTGAAGCTTCTAGCCCCAGGCCACCTCTGTACCTTCCCTGCGTGG 60

Qy 61 GGCATCATCCCACCTTCCAGAGCCCTGGAGAGCATGGAGACCCGGACCTCTGCG 120

Db 61 GGCATCATCCCACCTTCCAGAGCCCTGGAGAGCATGGAGACCCGGACCTCTGCG 120

Qy 121 TTCTCTGTCAAAAGAAATAATCCCCTGTGTGAGACCCAGAGAACACAG 180

Db 121 TTCTCTGTCAAAAGAAATAATCCCCTGTGTGAGACCCAGAGAACACAG 180

Qy 181 CAGGTTGACTGGGAGAGAGGGTGTCTCCAGGGATGGGGCTCATCCACCTT 240

Db 181 CAGGTTGACTGGGAGAGAGGGTGTCTCCAGGGATGGGGCTCATCCACCTT 240

Qy 241 GCGAAAGAAGATTTCTGAGGACTGAAATAGGGAAAGGGAAAGAAAGA 300

Db 241 GCGAAAGAAGATTTCTGAGGACTGAAATAGGGAAAGGGAAAGAAAGA 300

Qy 301 GGCGAAATGAGGGGGAGAGGGAGACCTGTAAAGACACCATGACCA 360

Db 301 GGCGAAATGAGGGGGAGAGGGAGACCTGTAAAGACACCATGACCA 360

Qy 361 CGTGTGGAGAGAGACTCTCCCTGGAGAGACCTGGAGAGGGAAAGCA 420

Db 361 CGTGTGGAGAGAGACTCTCCCTGGAGAGACCTGGAGAGGGAAAGCA 420

Qy 421 GCAGACAGACACTCACAGCAGCTGAAACGTTCTGGAACATCAAGCA 472

Db 421 GCAGACAGACACTCACAGCAGCTGAAACGTTCTGGAACATCAAGCA 472

Qy 121 TTCTCTGTCAAAAGAAATAATCCCCTGTGTGAGACCCAGAGAACACAG 180

Db 121 TTCTCTGTCAAAAGAAATAATCCCCTGTGTGAGACCCAGAGAACACAG 180

Qy 61 GGCATCATCCCACCTTCCAGAGCCCTGGAGAGCATGGGAGACCCGGACCTCTGCG 120

Db 61 GGCATCATCCCACCTTCCAGAGCCCTGGAGAGCATGGGAGACCCGGACCTCTGCG 120

Qy 181 CAGGTTGACTGGGAGAGAGGGTGTCTCCAGGGATGGGGCTCATCCACCTT 240

Db 181 CAGGTTGACTGGGAGAGAGGGTGTCTCCAGGGATGGGGCTCATCCACCTT 240

Qy 241 GCGAAAGAAGATTTCTGAGGACTGAAATAGGGAAAGGGGGACCTGACCA 300

Db 241 GCGAAAGAAGATTTCTGAGGACTGAAATAGGGAAAGGGGGACCTGACCA 300

Qy 301 GGCGAAATGAGGGGGAGAGGGAGACCTGTAAAGACACCATGACCA 360

Db 301 GGCGAAATGAGGGGGAGAGGGAGACCTGTAAAGACACCATGACCA 360

PR Determining methylation status of CpG dinucleotides using modified genomic sequences, oligonucleotides and/or PNA-oligomers, useful in the characterization, grading, staging and/or diagnosis of colon cancer.
 PR XX
 PS Disclosure; Page 59-60; 210pp; English.
 XX

CC The present invention describes a method for determining the methylation status of CpG dinucleotides within the genes for oestrogen receptor, p21, p27, p16, progesterone receptor, myoglobin, p21a, c-erb2, p53 and/or CEA, which comprises contacting the target nucleic acid with a reagent that distinguishes between methylated and non-methylated CpG dinucleotides, and determining from the methylation status of the CpG positions the presence of a colon cancer. A set of oligomers or peptide nucleic acid (PNA)-oligomers can be used as probes for determining the cytosine methylation state and/or single nucleotide polymorphisms (SNP) of a corresponding genomic DNA by analysis of a chemically pretreated genomic DNA. The pretreated genomic DNA is useful for the determination of SNPs. The methods and pretreated genomic DNA are also useful for the characterisation, classification, diagnosis and differentiation of colon cell proliferative disorders. Acr6752 to ACF6278 represent sequences used in the exemplification of the present invention
 XX

SQ Sequence 3500 BP; 843 A; 1039 C; 931 G; 687 T; 0 U; 0 Other;
 XX

Query Match 99.8%; Score 471; DB 8; Length 3500;
 Best Local Similarity 100.0%; Pred. No. 78-126; Length 3500;

Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCCACCAACCAGTAGGCTTTCTTACCCCCAGAGGCCACCTCTGACCTCTGTG 60
 DB 2506 AGCCACCAACCAGTAGGCTTTCTAGCCCCAGAGGCCACCTCTGACCTCTGTG 2565

QY 61 GGATCATCCACCTCCAGAGCCCTGGAGCATGGGAGCCGGACCTCTGTGG 120
 DB 2566 GGATCATCCACCTCCAGAGCCCTGGAGCATGGGAGCCGGACCTCTGTGG 2625

QY 121 TTCTCTCTGTCACAAAGGAAATAATCCCTCTGGTGTGACAGACCCAGAACAG 180
 DB 2626 TTCTCTGTCACAAAGGAAATAATCCCTCTGGTGTGACAGACCCAGAACAG 2685

QY 181 CAGGGTCTGCACTGGGAGACAGGTGCTCCAGGGATGGGGTCCATCCATT 240
 DB 2686 CAGGGTCTGCACTGGGAGACAGGTGCTCCAGGGATGGGGTCCATCCATT 2745

QY 241 GCGCAAAGATTTGTCTGAGGAACTGAATAAGGGAAAGAGGGGACAAAGA 300
 DB 2746 GCGCAAAGATTTGTCTGAGGAACTGAATAAGGGAAAGAGGGGACAAAGA 2805

QY 301 GCGGAAATGAGGGAGGGACAGGAGACCTGATAAAGGACACCCATGACCA 360
 DB 2806 GGAGAAATGAGGGAGGGACAGGAGACCCATGACCA 2865

QY 361 CGTGTGCTGAGAAGTACTCCCTGCCCTAGGAAGAGACTCAGGGCAGGGGAAGGACA 420
 DB 2866 CGTGTGCTGAGGAGTACTCCCTGCCCTAGGAAGAGACTCAGGGCAGGGGAAGGACA 2925

QY 421 GCAGACCAACAGTCAGCCAGGCTGCAAAAGCTCTGAACTCAAGC 471
 DB 2926 GCAGACCAACAGTCAGCCAGGCTGCAAAAGCTCTGAACTCAAGC 2976

QY 471 CGTGTGCTGAGAAGTACTCCCTGCCCTAGGAAGAGACTCAGGGCAGGGGAAGGACA 471
 DB 2976 GCAGACCAACAGTCAGCCAGGCTGCAAAAGCTCTGAACTCAAGC 2976

QY 531 GCGGAAATGAGGGAGGGACAGGAGACCTGATAAAGGACACCCATGACCA 360
 DB 593 CGTGTGCTGAGAAGTACTCCCTGCCCTAGGAAGAGACTCAGGGCAGGGGAAGGACA 10593

QY 593 GCGGAAATGAGGGAGGGACAGGAGACCTGATAAAGGACACCCATGACCA 360
 DB 653 CGTGTGCTGAGAAGTACTCCCTGCCCTAGGAAGAGACTCAGGGCAGGGGAAGGACA 10653

QY 653 GCGGAAATGAGGGAGGGACAGGAGACCTGATAAAGGACACCCATGACCA 360
 DB 713 CGTGTGCTGAGAAGTACTCCCTGCCCTAGGAAGAGACTCAGGGCAGGGGAAGGACA 10713

QY 713 GCGGAAATGAGGGAGGGACAGGAGACCTGATAAAGGACACCCATGACCA 360
 DB 773 CGTGTGCTGAGAAGTACTCCCTGCCCTAGGAAGAGACTCAGGGCAGGGGAAGGACA 10764

RESULT 5

AAQ0512 AAQ0512 standard; DNA; 11288 BP.

XX DT 25-MAR-2003 (revised)
 DR 01-NOV-1995 (first entry)

XX DE CEA clone HindIII-Sau3A fragment.

RESULT 6

AAQ0512 AAQ0512 standard; DNA; 11288 BP.

XX DT 25-MAR-2003 (revised)
 DR 01-NOV-1995 (first entry)

XX DE CEA clone HindIII-Sau3A fragment.

PR Carcinoembryonic antigen; CEA; transcription regulatory sequence; TRS; gene targeting; cancer; metastasis; gene therapy; cytidine deaminase; ss. XX KW KW
 XX OS OS
 XX PN PN
 XX WO9514100-A2. XX
 PD 26-MAY-1995. XX
 PR 18-NOV-1994; 94WO-GB002546. XX
 PR 19-NOV-1993; 93US-00154712. XX
 PA (WELL) WELLCOME FOUND LTD. XX
 PR Richards CA, Huber B; XX
 DR WPI; 1995-200389/26. XX
 PT New carcinoma byronic antigen transcriptional regulatory sequence DNA - used part; for expressing heterologous enzymes for pro-drugs in the treatment of cancers. XX
 PT Disclosure; Page 31-37; 64pp; English. XX

XX KW KW
 XX OS OS
 XX PN PN
 XX WO9514100-A2. XX
 PD 26-MAY-1995. XX
 PR 18-NOV-1994; 94WO-GB002546. XX
 PR 19-NOV-1993; 93US-00154712. XX
 PA (WELL) WELLCOME FOUND LTD. XX
 PR Richards CA, Huber B; XX
 DR WPI; 1995-200389/26. XX
 PT New carcinoma byronic antigen transcriptional regulatory sequence DNA - used part; for expressing heterologous enzymes for pro-drugs in the treatment of cancers. XX
 PT Disclosure; Page 31-37; 64pp; English. XX

CEA genomic clone lambdace1 was isolated from human chromosome 19 genomic library LL139N01 (ATCC 57766). An HindIII/Sau3A fragment of the clone extended from -10.7 to +0.6 kb relative to the start site of CEA mRNA. TRS regions of CEA are used to target e.g. cytosine deaminase to cancer cells for prodrug activation. (Updated on 25-MAR-2003 to correct PN field.) XX

Sequence 11288 BP; 2940 A; 3063 C; 2953 G; 2332 T; 0 U; 0 Other; XX

CC 99.8%; Score 471; DB 2; Length 11288;
 CC Best Local Similarity 100.0%; Pred. No. 1.1e-125;
 CC Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 CC Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 CC PN field.) XX

Sequence 11288 BP; 2940 A; 3063 C; 2953 G; 2332 T; 0 U; 0 Other;

CC 99.8%; Score 471; DB 2; Length 11288;
 CC Best Local Similarity 100.0%; Pred. No. 1.1e-125;
 CC Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 CC PN field.) XX

QY 1 AGCCACCAACCAGTAGGCTTTCTTACCCCCAGAGGCCACCTCTGACCTCTGTG 60
 DB 10294 AGCCACCAACCAGTAGGCTTTCTGACCCACCTCTGACCTCTGTG 10353

QY 61 GGCATCATCCACCTTCCAGAGCCCTGGAGAGCTGGGGAGCCGGGACCCGGACCTGTGG 120
 DB 10354 GGCATCATCCACCTTCCAGGCTGGAGATGGGGAGCCGGGACCTGTGG 10413

QY 121 TTCTCTGTCACAAAGGAAATAATCCCTCTGGTGTGACAGACCCAGAACAG 180
 DB 10414 TTCTCTGTCACAAAGGAAATAATCCCTCTGGTGTGACAGACCCAGAACAG 10473

QY 181 CAGGGTCTGCACTGGGAGACAGGTGCTCCAGGGATGGGGTCCATCCATT 240
 DB 10474 CAGGGTCTGCACTGGGAGACAGGTGCTCCAGGGATGGGGTCCATCCATT 10533

QY 241 GCGGAAAGATTTGTCTGAGGAACTGAATAAGGGAAAGAGGGGACAAAGA 300
 DB 10534 GCGGAAAGATTTGTCTGAGGAACTGAATAAGGGAAAGAGGGGACAAAGA 10593

QY 301 GCGGAAATGAGGGAGGGACAGGAGACCTGATAAAGGACACCCATGACCA 360
 DB 10594 GCGGAAATGAGGGAGGGACAGGAGACCTGATAAAGGACACCCATGACCA 10653

QY 361 CGTGTGCTGAGAAGTACTCCCTGCCCTAGGAAGAGACTCAGGGCAGGGGAAGGACA 420
 DB 10654 CGTGTGCTGAGAAGTACTCCCTGCCCTAGGAAGAGACTCAGGGCAGGGGAAGGACA 10713

QY 421 GCGGAAAGATGAGGGAGGGACAGGAGACCTGATAAAGGACACCCATGACCA 360
 DB 10714 GCGGAAAGATGAGGGAGGGACAGGAGACCTGATAAAGGACACCCATGACCA 10764

ID	AAS14778	standard; DNA; 11288	BP.	QY	121	TTTCCTCTGTACAAGAAATAATCCCTCTGTGACAGACCCAGAACAGACACAG	180
XX				Db	10414	TTTCCTCTGTACAAGAAATAATCCCTCTGTGACAGACCCAGAACAGACACAG	10473
AC							
XX	27-FEB-2002	(first entry)		QY	181	CAGAGGTCAGCACTGGAAAGACGGTTGCTCCAGGGATGGGGTCCATCCACCTT	240
XX	Human	carcinoembryonic	antigen (CEA)	genomic	DNA.		
DE	Recombinant	nucleic	acid	vector;	carcinoembryonic	antigen;	CBA;
KW	syncytium-inducing	polypeptide;	fusogenic	membrane	glycoprotein;	tumour;	Cytokine;
KW	recombinase;	tumour-specific	promoter;	hypoxic	response	element;	HRE;
KW	tyrosinase	promoter;	Cre	FLP;	retroviral	vector;	malignant
KW	cystostatic;	gene	therapy;	human.			
XX	Homo	sapiens.		QY	301	GCCAGAAATGAGGGGAGGGAGAGGACCTGATAGACCAACCCATGACCCA	360
XX				Db	10594	GCCAGAAATGAGGGGAGGGAGAGGACCTGATAGACCAACCCATGACCCA	10653
FH	Key	Location/Qualifiers					
FT	CDS	10804 ..10338					
FT		/*tag= a					
FT		/product= "Human	carcinoembryonic	antigen"			
XX	WO20014861-A2.			QY	361	CGTGATGCTGAGAAAGTACTCTGCGCTAGGAAAGACTCAGGGCAGGGAGGACA	420
PN				Db	10654	CGTGATGCTGAGAAAGTACTCTGCGCTAGGAAAGACTCAGGGCAGGGAGGACA	10713
XX	11-OCT-2001.						
PP	30-MAR-2001;	2001WO-US010250.		QY	421	GCAGACCCAGACAGTGTACAGCAGGCTTGACAAACCTGAACTCAAGC	471
XX	PR	31-MAR-2000;	2000US-0193977P.	Db	10714	GCAGACCCAGACAGTGTACAGCAGGCTTGACAAACCTGAACTCAAGC	10764
XX	PA	(MAYO)	FOUND MEDICAL EDUCATION & RES.				
XX	PI	vile RG,	Harrington K,	Murphy S,	Bateman A;		
XX	DR	2001-6569575.					
XX	PR	Recombinant	nucleic	acid	vector	for	reducing
PR	cassette	comprises	a	promoter	linked	to	tumour
PR	syncytium-inducing	polypeptide	and	flanked	on	either	size
XX	PS	by	recombinase.				
XX	DISCLOSURE;	Pig 3;	84pp;	English.			
CC	The	invention	relates	to	a	recombinant	nucleic
CC	first	expression	cassette,	comprising	a	acid	vector
CC	a	nucleic	acid	sequence	encoding	polypeptide	comprising
CC	such	as	a	syncytium-inducing	a	glycoprotein	a
CC	sequence	recognised	by	recombinase,	and/or	flanked	either
CC	comprising	a	tumour-specific	linked	a	side	side
CC	sequence	encoding	polypeptide	linked	to	by	by
CC	encoding	a	recombinase.	The	nucleic	a	a
CC	expression	cassette	may	acid	acid	nucleic	nucleic
CC	encoding	a	cytokine,	and	the	acid	acid
CC	promoter	linked	to	third	second	acid	acid
CC	linked	the	nucleic	cassette	to	second	third
CC	promoter	linked	the	recombinase.	The	acid	acid
CC	specific	promoter	the	recombinase	the	acid	acid
CC	is,	for	example,	recombinase	the	acid	acid
CC	promoter	or	a	tyrosinase	recombinase	acid	acid
CC	or	a	tyrosinase	promoter	the	acid	acid
CC	Cre	recombinase	and	the	recombinase	acid	acid
CC	recombinase	or	FLP	recombinase.	The	acid	acid
CC	recombinase	recombinase	the	invention	is	acid	acid
CC	recombinase	recombinase	the	compositions	useful	for	reducing
CC	recombinase	recombinase	the	retroviral	recombinase	size	tumour
CC	recombinase	recombinase	the	vectors,	or	size	size
CC	recombinase	recombinase	the	retroviral	recombinase	by	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase	the	vectors,	or	recombinase	recombinase
CC	recombinase	recombinase	the	retroviral	recombinase	recombinase	recombinase
CC	recombinase	recombinase					

Gene expression specific to cells capable of expressing CEA or capable of CEB-TRE-mediated transcription. A claimed replication-competent adenovirus (Ad) vector comprises an Ad gene under transcriptional control of a CEA-TRE. By providing for transcriptional initiating regulation dependent upon CEA expression, virus replication can be restricted to target cells which allow a CEA-TRE to function, particularly carcinoma cells expressing CEA. The vectors can be used to detect and monitor samples for the presence of cells that allow a CEA-TRE to function, and to selectively kill such cells, especially malignant cells.

Sequence 15056 BP; 3848 A; 4125 C; 4011 G; 3072 T; 0 U; 0 Other; SQ

Query Match 99.8%; Score 471; DB 2; Length 15056;
Best Local Similarity 100.0%; Pred. No. 1.3e-125;
Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCCACCCACTGAGCCCTTCTACGCCAGACCTCTGACCTCTG 60
Db 14052 AGCCACCCACTGAGCTTCTACGCCAGACCTCTGACCTCTG 14121
Qy 61 GGATCAACCTCCAGGAAATAATCCCTGTGTGAGACGGCATGGAGACGG 120
Db 141122 GGATCATCCACCTCCAGGAGACCCCTGAGACGGCATGGAGACGG 14181
Qy 121 TTCTCTCTCAAAAGGAAATAATCCCTGTGTGAGACGGCATGGAGACGG 180
Db 14182 TTCTCTCTCAAAAGGAAATAATCCCTGTGTGAGACGGCATGGAGACGG 14241
Qy 181 CAGGGTAGCACTGGGAGAGGGTGTCTCCAGGGATGGGTCATCCATT 240
Db 14242 CAGGGTAGCACTGGGAGAGGGTGTCTCCAGGGATGGGTCATCCATT 14301
Qy 241 GCGGAAAGATTTCTCTAGGACTGAAATAGGAGGAAAGAAGAAGAAGA 300
Db 14302 GCGGAAAGATTTCTCTAGGACTGAAATAGGAGGAAAGAAGAAGAAGA 14361
Qy 301 GGAGAAATGAGGGGGAGAGGGAGACCTGTGATAAAGGACACCCATGACCA 360
Db 14362 GGAGAAATGAGGGGGAGAGGGAGACCTGTGATAAAGGACACCCATGACCA 14421
Qy 361 CGTGATGGTGAAGAGTACTCTCCCTAGGAGAGACTCAGGGCAGGGAGCA 420
Db 14442 CGTGATGGTGAAGAGTACTCTCCCTAGGAGAGACTCAGGGCAGGGAGCA 14481
Qy 421 GGAGACCAAGACACTCACGGAGCAGGACCTGAAACGTCTGAACTGAGC 471
Db 14482 GGAGACCAAGACACTCACGGAGCAGGACCTGAAACGTCTGAACTGAGC 14532

RESULT 8
APZ99913 ID: APZ99913 Standard; DNA; 15056 BP.
XX AC AAZ99913;
XX DT 25-JUL-2000 (first entry)
XX DE DNA sequence of comprising a carinoembryonic antigen TRE.
XX KW Carinoembryonic antigen; adenoviral vector; adenovirus gene; transcriptional regulatory element; TRE; transcriptional control; adenoviral propagation; tumour; ss.

XX OS Unidentified.
XX PN WO200015820-A1.
XX PD 23-MAR-2000.
XX PF 10-SEP-1999; 99WO-US020718.
XX PR 10-SEP-1998; 98US-0099798-P.
XX PR 09-SEP-1999; 99US-00392832.

XX PA (Calyd) CALYDON INC.
XX PI Yu DC, Henderson DR;
XX DR WPI: 2000-271455/23.
XX PT Adenovirus vectors comprising cell-status specific response elements useful in gene therapy protocols for the treatment of cancers.
XX Disclosure: Fig 5A-1; 79pp; English.
XX PS Sequence 15056 BP; 3848 A; 4125 C; 4011 G; 3072 T; 0 U; 0 Other;
XX SQ The present sequence comprises a transcriptional regulatory element (TRE) from a carinoembryonic antigen gene. The TRE is used to produce an adenoviral vector of the invention. The specification describes an adenovirus vector which comprises an adenovirus gene under transcriptional control of a cell status specific TRE. The TRE is transcriptionally one that is essential for adenoviral propagation. The adenovirus vectors may be used for the treatment of a range of tumours such as lung, stomach, breast, colon and rectum, and uterine and cervix cancers.
XX SQ Sequence 15056 BP; 3848 A; 4125 C; 4011 G; 3072 T; 0 U; 0 Other;
XX SQ The present sequence comprises a transcriptional regulatory element (TRE) from a carinoembryonic antigen gene. The TRE is used to produce an adenoviral vector of the invention. The specification describes an adenovirus vector which comprises an adenovirus gene under transcriptional control of a cell status specific TRE. The TRE is transcriptionally one that is essential for adenoviral propagation. The adenovirus vectors may be used for the treatment of a range of tumours such as lung, stomach, breast, colon and rectum, and uterine and cervix cancers.
XX SQ Query Match 99.8%; Score 471; DB 3; Length 15056;
Best Local Similarity 100.0%; Pred. No. 1.3e-125;
Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 AGCCACCCACTCCAGGCTTCTAGGCCACCTCTGTCACCTTCCTGTTG 60
Db 14062 AGCCACCCACTGAGCTTCTAGGCCACCTCTGTCACCTTCCTGTTG 14121
Qy 61 GGATCAACCTCCAGGAAATAATCCCTGTGTGAGACGGCATGGAGACGG 120
Db 14122 GGATCATCCACCTCCAGGAGACCCCTGAGACGGCATGGAGACGG 14181
Qy 121 TTCTCTCTCAAAAGGAAATAATCCCTGTGTGAGACGGCATGGAGACGG 180
Db 14182 TTCTCTCTCAAAAGGAAATAATCCCTGTGTGAGACGGCATGGAGACGG 14241
Qy 181 CAGGGTAGCACTGGGAGAGGGTGTCTCCAGGGATGGGTCATCCATT 240
Db 14242 CAGGGTAGCACTGGGAGAGGGTGTCTCCAGGGATGGGTCATCCATT 14301
Qy 241 GCGGAAAGATTTCTCTAGGACTGAAATAGGAGGAAAGAAGAAGAAGA 300
Db 14302 GCGGAAAGATTTCTCTAGGACTGAAATAGGAGGAAAGAAGAAGAAGA 14361
Qy 301 GGAGAAATGAGGGGGAGAGGGAGACCTGTGATAAAGGACACCCATGACCA 360
Db 14362 GGAGAAATGAGGGGGAGAGGGAGACCTGTGATAAAGGACACCCATGACCA 14421
Qy 361 CGTGATGGTGAAGAGTACTCTCCCTAGGAGAGACTCAGGGCAGGGAGCA 420
Db 14442 CGTGATGGTGAAGAGTACTCTCCCTAGGAGAGACTCAGGGCAGGGAGCA 14481
Qy 421 GGAGACCAAGACACTCACGGAGCAGGACCTGAAACGTCTGAACTGAGC 471
Db 14482 GGAGACCAAGACACTCACGGAGCAGGACCTGAAACGTCTGAACTGAGC 14532

RESULT 9
AAA46851 ID: AAA46851 standard; DNA; 15056 BP.
XX AC AAA46851;
XX DT 03-OCT-2000 (first entry)
XX DE Nucleotide sequence of a CEA-TRE.
XX KW Adenoviral vector; adenoviral gene; E3 sequence; cancer; target cell-specific transcriptional regulatory element; TRE;

KW	selective cytotoxicity; cell growth; tumour growth; ss.	Db	14422 CGTGTAGTCTGAGAAGTACTCTGCCCTTAGGAGAGAGCTAGGGAGGGAGGAGCA 14484
XX	Homo sapiens.	Qy	421 GGAGCAGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGC 471
OS		Db	14482 GGAGCAGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGC 14532
XX			
PN	WO200039319-A2.		
XX	06-JUL-2010.		
XX			RESULT 10
PP	30-DEC-1999;	Qy	AAH43520 standard; CDNA; 15056 BP.
XX		ID	AAH43520
PR	30-DEC-1998;	XX	
PR	29-DEC-1999;	AC	AAH43520;
XX		XX	
PA	(CAYL-) CALYDON INC.	DT	07-JAN-2002 (first entry)
XX		XX	
P1	Henderson DR, Yu D;	DE	
XX		CEA-TRE.	
DR	WPI; 2000-452409/39.	XX	
XX	New adenoviral vector for selective targeting of cancer cells, comprises	XX	Adenovirus; ADP; replication-competent; adenoviral vector; TRE; PCR;
PT	PT	XX	transcriptional regulatory element; mutation; deletion; IRES; primer;
PT	PT	XX	promoter; internal ribosome entry site; cytotoxic; cancer; bladder;
PT	PT	AC	amplify; polymerase chain reaction; alpha-fetoprotein; APP; ENCV;
PT	PT	XX	encephalomyocarditis virus; vascular endothelial growth factor; VEGF;
PT	PT	XX	immunoglobulin heavy-chain binding protein; BAP; uroplakin II; PDGF;
PS	PS	XX	platelet-derived growth factor; hypoxia responsive element; HRE;
PS	PS	XX	prostate-specific antigen; PSA; ss.
XX	OS	OS	
XX	Homo sapiens.	XX	
XX		Key	Location/Qualifiers
XX		PH	precursor_RNA
XX		PT	/*tag=
XX		PT	a
XX		XX	/note= "transcription start site"
XX		BN	WO200173093-A2.
XX		XX	
XX		BN	04-OCT-2001.
XX		XX	
XX		PR	21-MAR-2001; 2001WO-US009036.
XX		XX	
XX		PR	24-MAR-2000; 2000US-0192156P.
XX		XX	
XX		PA	(CAYL-) CALYDON INC.
XX		XX	
XX		PT	Yu D, Li Y, Henderson DR;
XX		XX	
XX		DR	WPI; 2001-639234/73.
XX		XX	
XX		PT	Replication-competent adenoviral vector, useful e.g. for killing cancer
XX		PT	cells, contains two genes linked by internal ribosome entry site and
XX		PT	controlled by target-specific regulator.
XX		PS	Example: Page 117-125; 148pp; English.
XX		XX	
XX		CC	The sequences given in AAH43607-22 represent sequences which may used in
XX		CC	the replication-competent adenoviral vector (A) of the invention. The
XX		CC	vector contains two genes (G1, G2) that are co transcribed as single
XX		CC	mRNA and under control of a heterologous, target cell-specific
XX		CC	transcriptional regulatory element (TRE). G2 has a mutation in, or
XX		CC	deletion of, its endogenous promoter is controlled from an internal
XX		CC	ribosome entry site (IRES). (A) has greater specificity for a target cell
XX		CC	than a similar vector in which TRE is operably linked to a gene and which
XX		CC	lacks an IRES. (A) are used to modify the genotype of target cells,
XX		CC	optionally in vitro with subsequent return of altered cells to the host
XX		CC	and where G2 is a cytotoxic gene, to confer selective cytotoxicity to
XX		CC	target cells, especially for killing cancer cells. Also (A) are used for
XX		CC	diagnosis and monitoring, e.g. detection of bladder cancer cells. The
XX		CC	target cell-specific TRE ensures that (A) has better targeting
XX		CC	specificity, with minimal replication in non-target cells, so a runaway
XX		CC	infection is prevented but production of adenoviral proteins in target
XX		CC	cells activates and/or stimulates the immune response against target
XX		CC	cells producing such proteins. The use of an IRES (rather than two
XX		CC	identical control elements) eliminates the risk of homologous
XX		CC	recombination may provide enough extra space for an additional
XX		CC	
XX		Qy	301 GCGAGAAATGGAGGGAGGGAGGAGCTGAGAATAGAGGGAAACCCATGACCA 360
XX		Db	14362 GCGAGAAATGGAGGGAGGGAGGAGCTGAGAATAGAGGGAAACCCATGACCA 14421
XX		Qy	361 CGTGTAGTCTGAGAAGTACTCTGCCCTAGGAGAGCTAGGGAGGGAGGGAGGAGCA 420

KW	adenovirus death protein; glandular kallikrein.	Db	14482 GCAGACAGACAGTCACAGCACCTGACAAAACGTCCTGAACTCAAGC 14532
XX	Unidentified.	RESULT 1.3	
GS		ID ACD07309	standard; DNA; 15056 BP.
PN	US2002068049-A1.	XX	
XX		AC	ACD07309;
PD	06-JUN-2002.	XX	
PF	06-DEC-2000; 2000US-00732169.	DT	07-AUG-2003 (first entry)
XX		XX	Human carcinomaembryonic antigen (CEA) TRE.
PR	10-SEP-1998; 98US-00151376.	DE	Adenoviral vector; adenovirus gene; transcriptional control; TRE; cell type-specific; transcriptional response element; PSA; hK1K; prostate-specific antigen; CEA; mucin-like glycoprotein DF3; MUC1; carcinembryonic antigen; PSA; mucin-like; tumour growth; gene therapy; cytotoxicity; neoplasia; tumour growth; gene therapy; cytostatic; human; ds.
XX		KW	KW
PA	(HEND/) HENDERSON D. R. (SCHU/) SCHUTER E. R.	XX	KW
XX		DE	DE
PI	Henderson DR, Schutur ER;	XX	DE
XX		DE	DE
DR	WPI; 2002-582468/62.	XX	DE
XX		DE	DE
PT	Novel adenovirus vector comprises adenovirus gene under transcriptional control of cell-type specific transcriptional response element for conferring selective toxicity on target cell and for suppressing tumor growth.	OS	OS
XX		OS	OS
PS	Disclosure; Fig 15; 83DP; English.	PN	US2003044383-A1.
XX		XX	XX
CC	The invention relates to an adenovirus vector (AV) comprising an AV gene under transcriptional control of a cell type-specific transcriptional regulatory element (TRE) and optionally a first AV gene under control of a first cell type-specific TRE and a second gene under control of a second cell type-specific TRE, where the first and second cell type-specific TREs are substantially identical. When the vector is introduced into a cell (e.g. prostate cell, liver cell, breast cancer cell or colon cancer cell) it allows the cell type-specific TRE to function, resulting in cytotoxicity. The vector is useful for suppressing tumour growth of a target cell. This sequence represents a polynucleotide used in the scope of the invention.	XX	05-MAR-2003.
CC		XX	XX
CC	Sequence 15056 BP; 3848 A; 4125 C; 4011 G; 3072 T; 0 U; 0 Other;	PF	10-SEP-1998;
CC	Query Match 99.8%; Score 471; Length 15056;	PA	98US-00151376.
CC	Best Local Similarity 100.0%; Pred. No. 1.3e-125;	PA	(HEND/) HENDERSON D. R.
CC	Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	(SCHU/) SCHUTER E. R.	
CC		XX	
CC		PI	Henderson DR, Schutur ER;
CC		XX	
CC		DR	WPI; 2003-456547/43.
CC		XX	XX
CC		PT	New adenovirus vector for transfecting target host cells, comprises an adenovirus gene under transcriptional control of a cell type-specific transcriptional response element.
CC		PT	
CC		PT	
CC		PS	Disclosure; Fig 14; 83pp; English.
CC		XX	
CC	The present invention relates to adenoviral vectors comprising an adenovirus gene under transcriptional control of a cell type-specific transcriptional response element (TRE). Example TREs given in the specification include human prostate-specific antigen (PSA) TRE, human glandular kallikrein (hK1K) TRE, rat probasin (PB) TRE, human carcinembryonic antigen (CEA) TRE, and human mucin-like glycoprotein DF3 (MUC1) TRE. The modified adenovirus vector is useful as a vehicle for introducing new genetic capability, particularly associated with cytotoxicity for treating neoplasia. For example, the vector may be used in a target cell to suppress tumour growth, or to kill the target cell. The vector is particularly useful in gene therapy. The present sequence represents a TRE		
CC		XX	
CC		SQ	Sequence 15056 BP; 3848 A; 4125 C; 4011 G; 3072 T; 0 U; 0 Other;
CC		CC	99.8%; Score 471; DB 8; Length 15056;
CC		CC	Best Local Similarity 100.0%; Pred. No. 1.3e-125;
CC		CC	Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
CC		CC	1 AGCCACCAACCCAGTGAGCCCTTTCTAGCCCCAGGCCACCTCTGACCTCTGTG 60
CC		CC	1 AGCCACCAACCCAGTGAGCCCTTTCTAGCCCCAGGCCACCTCTGACCTCTGTG 60
Db	14062 AGCCACCAACCCAGTGAGCCCTTTCTAGCCCCAGGCCACCTCTGACCTCTGTG 14121	Db	14062 AGCCATCATCCACCTTCCAGAGCCCTGAGAGCATGGGGACCCCTGCGGG 120
QY	61 GGCATCATCCACCTTCCAGAGCCCTGAGAGCATGGGGACCCCTGCGGG 120	QY	14122 GGATCATCCACCTTCCAGAGCCCTGAGAGCATGGGGACCCCTGCGGG 14181
Db	14122 GGATCATCCACCTTCCAGAGCCCTGAGAGCATGGGGACCCCTGCGGG 14181	QY	121 TTCTCTGTACAGGAAATATCCCTGTTGACGACCAAGAGCAAGAG 180
Db	14182 TTCTCTGTACAGGAAATATCCCTGTTGACGACCAAGAGCAAGAG 14241	Db	14182 TTCTCTGTACAGGAAATATCCCTGTTGACGACCAAGAGCAAGAG 14241
QY	181 CAGAGTCAAGCCTGGAGACAGGTTCCTCCAGGGATGGGTCATCCACCTT 240	QY	181 CAGAGTCAAGCCTGGAGACAGGTTCCTCCAGGGATGGGTCATCCACCTT 240
Db	14242 CAGGGTCAAGCCTGGAGACAGGTTCCTCCAGGGATGGGTCATCCACCTT 14301	Db	14242 CAGGGTCAAGCCTGGAGACAGGTTCCTCCAGGGATGGGTCATCCACCTT 14301
QY	241 GCCGAAAGAATTTCTGAGGAATAGAGGGAAAAGAGGGAGGAAAGAGA 300	QY	14302 GCGGAAAGAATTTCTGAGGAATAGAGGGAAAAGAGGGAGGAAAGAGA 14361
Db	14302 GCGGAAAGAATTTCTGAGGAATAGAGGGAAAAGAGGGAGGAAAGAGA 14361	QY	301 GGCGAAATAGAGGGAGGAGACCTGATAAGACCACTGACCA 360
Db	14362 GCGGAAATAGAGGGAGGAGACCTGATAAGACCACTGACCA 14421	Db	14362 GCGGAAATAGAGGGAGGAGACCTGATAAGACCACTGACCA 14421
QY	361 CGTGTGCTGAGAAGTACTCTGCCTGAGAAGAGACTCGGGAGAGGGAGGAAAGACA 420	QY	361 CGTGTGCTGAGAAGTACTCTGCCTGAGAAGAGACTCGGGAGAGGGAGGAAAGACA 420
Db	14422 CGTGTGCTGAGAAGTACTCTGCCTGAGAAGAGACTCGGGAGAGGGAGGAAAGACA 14481	Db	14422 CGTGTGCTGAGAAGTACTCTGCCTGAGAAGAGACTCGGGAGAGGGAGGAAAGACA 14481
QY	421 GCAGACCAACGAGACAGTCACAGCACCTGTTGACAAAAGCTTCTGAAACTCAAGC 471	QY	421 GCAGACCAACGAGACAGTCACAGCACCTGTTGACAAAAGCTTCTGAAACTCAAGC 471

XX	(SCRI) SCRIPPS RES INST.
XX	Xiang R, Reisfeld RA;
PI	
XX	DR
XX	WPI ; 2003-748281/70.
PT	New DNA vaccine for eliciting an immune response against cells presenting a carcinoembryonic antigen (CEA) such as colon cancer cells, comprises a plasmid DNAs encoding a CEA and/or a CD40 ligand, together with a carrier.
XX	
PS	Disclosure; SEQ ID NO 1; 48pp; English.
XX	
CC	The invention relates to a novel DNA vaccine for eliciting an immune response against cells that present a carcinoembryonic antigen (CEA). The vaccine comprises a plasmid DNA operably encoding a CEA, and a plasmid DNA operably encoding a CD40 ligand or its homotrimer, together with a carrier. The DNA vaccine has cytostatic activity and may be used in gene therapy to treat disorders. The DNA vaccine is useful in preventing cancers, such as colon cancer, by eliciting an immune response against cells that present CEA, including colon cancer cells. This polynucleotide sequence represents the DNA of a human CEA gene, used as a ligand of the invention.
XX	
SQ	Sequence 3281 BP; 847 A; 953 C; 871 G; 610 T; 0 U; 0 Other;
Query	Query Match 91.6%; Score 432.4; DB 1.0; Length 3281;
Db	Best Local Similarity 98.9%; Pred. No. 1.e-114;
Matches 467; Conservative 0; Mismatches 1; Indels 4; Gaps 3;	
Qy	1 AGCCACCCAGTGGCTTCTACCCCCAGAGCACCTCTGTCACCTCCGTG 60
Db	1261 AGCCACCCAGTGGCTTCTACCCCCAGAGCACCTCTGTCACCTCCGTG 1320
Qy	61 GGATCATCCACCTCCAGAGCCCTGGAGCATGGGAGCCGGACCTGGGG 120
Db	1321 GGATCATCCACCTCCAGAGCCCTGGAGCATGGGAGCCGGAGCGGG 1379
Qy	121 TTCTCTCTCACAAAGGAAATAATCCCCCTGTCAGACCCAGAACAG 180
Db	1380 TTCTCTCTCACAAAGGAAATAATCCCCCTGTCAGACCCAGAACAG 1439
Qy	181 CAGAGTCACTGGG-AAGCAGGTGTCCTCCAGGGATGGGGTCCATCCACT 239
Db	1440 CAGGGTCTGACTGGGAAAGCAGGTGTC -CAGGGATGGGGTCCATCCACT 1497
Qy	240 TGCGAAAGATTGTCAGGAACTGAAATAAGAGGAAAAGAGGGGACAAAG 299
Db	1498 TGCGAAAGATTGTCAGGAACTGAAATAAGAGGAAAAGAGGGACAAAG 1557
Qy	300 AGGAGAAATGAGGGGGAGGGACAGAGCACCTGATAAGACCCACCCATGCC 359
Db	1558 AGGAGAAATGAGGGGGAGGGACAGAGCACCTGATAAGACCCACCCATGCC 1617
Qy	360 ACGTGATGTCAGAGTACTCTGCTCTAGGAGAGCTAGGGAGGGGGAGAC 419
Db	1618 ACGTGATGTCAGAGTACTCTGCTCTAGGAGAGCTAGGGAGGGGGAGAC 1677
Qy	420 AGCAGACAGACAGACTCACAGCAGCTGACAAACGTTCTGAAACTGAGC 471
Db	1678 AGCAGACAGACAGTCAGCAGCTGACAAACGTTCTGAAACTGAGC 1729

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Result No.	Score	Query Match	Length	DB ID	Description
1	472	100.0	472	4	US-09-033-556-7
2	472	100.0	472	4	US-09-151-376-7
3	472	100.0	472	4	US-09-151-376-54
4	471	99.8	11288	3	US-08-646-301A-1
5	471	99.8	11288	3	US-08-481-968A-4
6	471	99.8	11288	3	US-08-154-912B-4
7	471	99.8	11288	4	US-09-947-925A-4
8	471	99.8	11288	4	US-09-474-699-10
9	471	99.8	15056	4	US-09-814-351-14
10	156.6	33.2	2073	3	US-09-924-103-1
11	94	19.9	3774	3	US-08-646-301A-2
12	94	19.9	3774	3	US-08-481-968A-5
13	94	19.9	3774	3	US-08-154-912B-5
14	94	19.9	3774	4	US-09-947-925A-5
15	71.2	15.9	7218	1	US-08-232-163-14
16	57.6	12.2	387	4	US-09-370-838-177
17	57.6	12.2	387	4	US-09-854-133-177
18	57.2	12.1	460	4	US-09-401-664-169
19	56.4	11.9	319	4	US-09-513-999C-14905
20	54.8	11.6	306	4	US-09-513-999C-14903
21	54.8	11.6	327	4	US-09-513-999C-14902
22	54.8	11.6	414	4	US-09-513-999C-14904
23	54.6	11.6	504	4	US-09-513-999C-14906
24	54.2	11.5	502	4	US-09-513-999C-8661
25	54.2	11.5	2115	4	US-09-513-999C-14901
26	54	11.4	2220	3	US-08-287-867A-16
27	54	11.4	2220	3	US-08-287-867A-16

Qy 1 AGCCACCAACCCAGTGGCTTTCTAGCCCCAGGGCACCTCTGTCACCTCCGTTG 60
 Db 1 AGCCACCAACCCAGTGGCTTTCTAGCCCCAGGGCACCTCTGTCACCTCCGTTG 60
 Qy 61 GGCATCATCCACCTTCCCAGGCCCCAGGGCACCTCTGTCACCTCCGTTG 60
 Db 61 GGCATCATCCACCTTCCCAGGCCCCAGGGCACCTCTGTCACCTCCGTTG 60
 Qy 121 TTTCCTGTCACAAAGGAAATAATCCCTCTGGTGTACAGACCCAGAACACAG 180
 Db 121 TTTCCTGTCACAAAGGAAATAATCCCTCTGGTGTACAGACCCAGAACACAG 180
 Qy 181 CAGAGTCAGCAACTGGGAGACAGGGTTCCTCCAGGCTGGATCCATCCCT 240
 Db 181 CAGAGTCAGCAACTGGGAGACAGGGTTCCTCCAGGCTGGATCCATCCCT 240
 Qy 241 GCGAAAAGAAATAAGGGAAACTGAGAAACTGAGCTGGCTAGAGAACACT 472
 Db 241 GCGAAAAGAAATAAGGGAAACTGAGAAACTGAGCTGGCTAGAGAACACT 472
 Qy 301 GCGAAAAGAAATAAGGGAAACTGAGAAACTGAGCTGGCTAGAGAACACT 360
 Db 301 GCGAAAAGAAATAAGGGAAACTGAGAAACTGAGCTGGCTAGAGAACACT 360
 Qy 361 CGTGATCTGAGTACTGGGAGACAGGGTTCCTCCAGGCTGGATCCATCCCT 420
 Db 361 CGTGATCTGAGTACTGGGAGACAGGGTTCCTCCAGGCTGGATCCATCCCT 420
 Qy 421 GCAGACCAAGACAGTCACAGACCCCTGACAAAACCTTCCTGAAACTCAAGCA 472
 Db 421 GCAGACCAAGACAGTCACAGACCCCTGACAAAACCTTCCTGAAACTCAAGCA 472
 Qy 301 GCGAAAAGAAATAAGGGAAACTGAGAAACTGAGCTGGCTAGAGAACACT 360
 Db 301 GCGAAAAGAAATAAGGGAAACTGAGAAACTGAGCTGGCTAGAGAACACT 360
 Qy 361 CGTGATCTGAGTACTCTGGAGAGACTCTGGCTAGAGACCCCTGACAAAACCT 420
 Db 361 CGTGATCTGAGTACTCTGGAGAGACTCTGGCTAGAGACCCCTGACAAAACCT 420
 Qy 421 GCAGACCAAGACAGTCACAGACCCCTGACAAAACCTTCCTGAAACTCAAGCA 472
 Db 421 GCAGACCAAGACAGTCACAGACCCCTGACAAAACCTTCCTGAAACTCAAGCA 472
 RESULT 2
 US-09-151-376-7
 ; Sequence 7, Application US/09151376
 ; Patent No. 6676935
 ; GENERAL INFORMATION:
 ; APPLICANT: Henderson, D.R.
 ; INVENTION: TISSUE SPECIFIC VIRAL VECTORS
 ; FILE REFERENCE: 348022000221
 ; CURRENT APPLICATION NUMBER: US/09/151,376
 ; CURRENT FILING DATE: 1998-09-10
 ; EARLIER APPLICATION NUMBER: 08/669,753
 ; EARLIER FILING DATE: 1996-06-26
 ; EARLIER APPLICATION NUMBER: 08/495,034
 ; EARLIER FILING DATE: 1995-06-27
 ; NUMBER OF SEQ ID NOS: 71
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 54
 ; LENGTH: 472
 ; TYPE: DNA
 ; ORGANISM: Unknown
 ; FEATURE:
 ; OTHER INFORMATION: Description of Unknown Organism: Unknown
 ; US-09-151-376-54
 Query Match Score 472; DB 4; Length 472;
 Best Local Similarity 100.0%; Pred. No. 9.2e-134; Indels 0; Gaps 0;
 Matches 472; Conservative 0; Mismatches 0; DelIns 0; Gaps 0
 Qy 1 AGCCACCAACCCAGTGGCTTTCTAGCCCCAGGGCACCTCTGTCACCTCCGTTG 60
 Db 1 AGCCACCAACCCAGTGGCTTTCTAGCCCCAGGGCACCTCTGTCACCTCCGTTG 60
 Qy 61 GGCATCATCCACCTTCCCAGGCCCCAGGGCACCTCTGTCACCTCCGTTG 120
 Db 61 GGCATCATCCACCTTCCCAGGCCCCAGGGCACCTCTGTCACCTCCGTTG 120
 Qy 1 AGCCACCAACCCAGTGGCTTTCTAGCCCCAGGGCACCTCTGTCACCTCCGTTG 60
 Db 1 AGCCACCAACCCAGTGGCTTTCTAGCCCCAGGGCACCTCTGTCACCTCCGTTG 60
 Qy 61 GGCATCATCCACCTTCCCAGGCCCCAGGGCACCTCTGTCACCTCCGTTG 120
 Db 61 GGCATCATCCACCTTCCCAGGCCCCAGGGCACCTCTGTCACCTCCGTTG 120
 Qy 121 TTTCCTGTCACAAAGGAAATAATCCCTCTGGTGTACAGACCCAGAACACAG 180
 Db 121 TTTCCTGTCACAAAGGAAATAATCCCTCTGGTGTACAGACCCAGAACACAG 180
 Qy 181 GCGAAAAGAAATAAGGGAAACTGAGAAACTGAGCTGGCTAGAGAACACT 472
 Db 181 GCGAAAAGAAATAAGGGAAACTGAGAAACTGAGCTGGCTAGAGAACACT 472
 Qy 301 GCGAAAAGAAATAAGGGAAACTGAGAAACTGAGCTGGCTAGAGAACACT 360
 Db 301 GCGAAAAGAAATAAGGGAAACTGAGAAACTGAGCTGGCTAGAGAACACT 360

QY 361 CGTGATGGTGTAGAGTACTCTGCCCTAGGAAGAGACTCAGGCCAGGGAGGAGACA 420
 DB 361 CGTGATGGTGTAGAGTACTCTGCCCTAGGAAGAGACTCAGGCCAGGGAGGAGACA 420

QY 421 GCAGACAGACAGTCACAGCAGCTTGCACAAAGTCTGGAACCTAGAGCA 472
 DB 421 GCAGACAGACAGTCACAGCAGCTTGCACAAAGTCTGGAACCTAGAGCA 472

RESULT 4
 US-08-646-301A-1
 ; Sequence 1, Application US/08646301A
 ; Patent No. 6194211
 ; GENERAL INFORMATION:
 ; APPLICANT: Huber, Brian E.
 ; TITLE OF INVENTION: Transcriptional Regulatory Sequence of Carcinoembryonic
 ; Patent No. 6194211
 ; CURRENT FILING DATE: 1996-05-16
 ; CURRENT APPLICATION NUMBER: US/08/646-301A
 ; FILE REFERENCE: PB1087US4
 ; NUMBER OF SEQ ID NOS: 25
 ; CURRENT FILING DATE: 1998-06-07
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: PatentIn version 3.0
 ; SEQ ID NO: 4
 ; LENGTH: 11288
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-08-481-968A-4
 ; LENGTH: 11288

Query Match 99.8%; Score 471; DB 3; Length 11288;
 Best Local Similarity 100.0%; Pred. No. 8.4e-133;
 Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCCACCAACCCAGTGGCCCTTCTAGGCCCCAGGCCACCTCTGACCTCTGCTTG 60
 DB 10294 AGCCACCAACCCAGTGGCCCTTCTAGGCCCCAGGCCACCTCTGACCTCTGCTTG 10353

QY 61 GGATCATCCACCTTCCAGGCCCTGGAGGATGGGAGACCCGGACCTGCTGGG 120
 DB 10354 GGATCATCCACCTTCCAGGCCCTGGAGGATGGGAGACCCGGACCTGCTGGG 10413

QY 121 TTTCCTCTGTACAAAGGAAATAATCCCTCTGGTGTACAGACCCAGGACAGACAG 180
 DB 10414 TTTCCTGTACAAAGGAAATAATCCCTCTGGTGTACAGACCCAGGACAGACAG 10473

QY 181 CAGAGGTCAAGCACTGGGAAGAGCAGGTGTCTCCAGGGATGGGGTCCATCACCTT 240
 DB 10474 CAGAGGTCAAGCACTGGGAAGAGCAGGTGTCTCCAGGGATGGGGTCCATCACCTT 10533

QY 241 GCGGAAGAGATTGCTGAGGAACCTGTAACCTTCTGCTTG 60
 DB 10534 GCGGAAGAGATTGCTGAGGAACCTGTAACCTTCTGCTTG 10593

QY 61 GGATCATCCACCTTCCAGGCCCTGGAGGATGGGAGACCCGGACCTGCTGGG 120
 DB 10354 GGATCATCCACCTTCCAGGCCCTGGAGGATGGGAGACCCGGACCTGCTGGG 10413

QY 121 TTTCCTCTGTACAAAGGAAATAATCCCTCTGTGTACAGACCCAGGACAGACAG 180
 DB 10414 TTTCCTCTGTACAAAGGAAATAATCCCTCTGTGTACAGACCCAGGACAGACAG 10473

QY 181 CAGAGGTCAAGCACTGGGAAGAGCAGGTGTCTCCAGGGATGGGGTCCATCACCTT 240
 DB 10474 CAGAGGTCAAGCACTGGGAAGAGCAGGTGTCTCCAGGGATGGGGTCCATCACCTT 10533

QY 241 GCGGAAGAGATTGCTGAGGAACCTGTAACCTTCTGCTTG 60
 DB 10534 GCGGAAGAGATTGCTGAGGAACCTGTAACCTTCTGCTTG 10593

QY 301 GCGGAAGATGAGGGAGGGAGAGGAGACCTGATAATAAGACCAACCCATGACCCA 360
 DB 10594 GCGGAAGATGAGGGAGGGAGAGGAGACCTGATAATAAGACCAACCCATGACCCA 10653

QY 361 CCTGATGCTGAGGAAGTACTCTGCTCTGGAGGACTGGGAGGAGGAGGACA 420
 DB 10654 CCTGATGCTGAGGAAGTACTCTGCTCTGGAGGAGGAGGAGGACA 10764

RESULT 6
 US-08-154-712B-4
 ; Sequence 4, Application US/08154712B
 ; Patent No. 6331209
 ; GENERAL INFORMATION:
 ; APPLICANT: Richards, Cynthia
 ; TITLE OF INVENTION: Molecular Constructs Containing a Carcinoembryonic Antigen Reg
 ; FILE REFERENCE: PB1087US3
 ; CURRENT APPLICATION NUMBER: US/08/154,712B
 ; CURRENT FILING DATE: 1993-11-19
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: PatentIn version 3.0
 ; SEQ ID NO: 4
 ; LENGTH: 11288
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-08-154-712B-4

RESULT 5
 US-08-481-968A-4
 ; Sequence 4, Application US/08481968A
 ; Patent No. 630090
 ; GENERAL INFORMATION:
 ; APPLICANT: Huber, Brian

Query Match 99.8%; Score 471; DB 3; Length 11288;
 Best Local Similarity 100.0%; Pred. No. 8.4e-133;

Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0; Qy 1 AGCCACCCAGTGAAGCTTCTAACCCCCAGGCCACCTCTGACCTTCCTG 60 Db 10294 AGCCACCCAGTGAAGCTTCTAACCCCCAGGCCACCTCTGACCTTCCTG 10353 Qy 61 GGATCATCCACCTCCAGGCCCTGAGAGCATGGGAGACCCGGACCTCTGG 120 Db 10354 GGATCATCCACCTCCAGGCCCTGAGAGCATGGGAGACCCGGACCTCTGG 10413 Qy 121 TTTCTCTTCAAAAGAAAATAATCCCCTGTGTCAAGACCCANGACAGAACAG 180 Db 10414 TTTCTCTTCAAAAGAAAATAATCCCCTGTGTCAAGACCCANGACAGAACAG 10473 Qy 181 CAGGGTAGACTGGGAAGAGAACCTGGGAGACAGAGAACCTGGGAGAC 240 Db 10474 CAGGGTAGACTGGGAAGAGAACCTGGGAGACAGAGAACCTGGGAGAC 10533 Qy 241 GCGAAAGAGATTTCTTGTAGAACTGAAATAAGGGGAAAGGGGACAAAGA 300 Db 10534 GCGAAAGAGATTTCTTGTAGAACTGAAATAAGGGGAAAGGGGACAAAGA 10593 Qy 301 GCGAGAAATGAGGGGAGGGAGACAGAGAACCTGGGAGACAGAGAACCTGGGAGAC 420 Db 10654 CGTGATGCTGAGAAAGTACTCTGCCCCTAGGAGAACCTGGGAGAC 10713 Qy 421 GCAGACAGACAGTACAGACAGACAGACAGACAGACAGACAGACAGACAG 471 Db 10714 GCAGACAGACAGTACAGACAGACAGACAGACAGACAGACAGACAGACAG 10764

RESULT 8
US-09-474-699-10
Sequence 10, Application US/09474699
; Patent No. 6,195130
; GENERAL INFORMATION:
; APPLICANT: Henderson, Daniel R.
; ATTORNEY/AGENT: De Chao
; TITLE OF INVENTION: TARGET CELL-SPECIFIC ADENOVIRAL VECTORS
; TITLE OF INVENTION: CONTAINING E3 AND METHODS OF USE THEREOF
; FILE REFERENCE: 348022001300
; CURRENT APPLICATION NUMBER: US/09/474,699
; CURRENT FILING DATE: 1998-12-29
; PRIOR APPLICATION NUMBER: 1,60,114,262
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 15056
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-474-699-10

Query Match 99.8%; Score 471; DB 4; Length 15056;
Best Local Similarity 100.0%; Pred. No. 9.6e-133;
Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 14062 AGCCACCCAGTGAAGCTTCTAACCCCCAGGCCACCTCTGACCTTCCTG 14121
Qy 61 GGCATCATCCACCTTCCAGGCCACCTCTGACCTTCCTAACCCCCAGGCCACCTCTG 120
Db 14122 GGCATCATCCACCTTCCAGGCCACCTCTGACCTTCCTAACCCCCAGGCCACCTCTG 14181
Qy 121 TTTCTCTGACAAAGAAAATAATCCCCTGTGTGACAGACAGACAGACAG 180
Db 14182 TTTCTCTGACAAAGAAAATAATCCCCTGTGTGACAGACAGACAGACAG 14241
Query Match 99.8%; Score 471; DB 4; Length 11288;
Best Local Similarity 100.0%; Pred. No. 8.4e-133;
Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 10294 AGCCACCCAGTGAAGCTTCTAACCCCCAGGCCACCTCTGACCTTCCTG 10353
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Qy 121 TTTCTCTGACAAAGAAAATAATCCCCTGTGTGACAGACAGACAGACAG 180
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Qy 241 GCGAGAAATGAGGGGAGGGAGACAGAGAACCTGGGAGACAGAGAACCTGGGAGAC 300
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Qy 301 GCGAGAAATGAGGGGAGGGAGACAGAGAACCTGGGAGACAGAGAACCTGGGAGAC 360
Db 14362 GCGAGAAATGAGGGGAGGGAGACAGAGAACCTGGGAGACAGAGAACCTGGGAGAC 14421
Qy 361 CGTGATGCTGAGAAAGTACTCTGCCCCTAGGAGAACCTGGGAGACAGAGAACCTGGGAGAC 420
Db 10654 CGTGATGCTGAGAAAGTACTCTGCCCCTAGGAGAACCTGGGAGACAGAGAACCTGGGAGAC 10713

RESULT 9

Db 14422 CGTGTGCTGAACTCTGCCTAGGAAAGACTAGGGAGGAGGACA 14481 ; Patent No. 6759045
 ; GENERAL INFORMATION:
 ; APPLICANT: GOLDENBERG, DAVID M.
 ; SEQ ID NO 1
 ; SEQ ID NO 1
 ; GENERAL INFORMATION:
 ; FILE REFERENCE: 018733-1055
 ; CURRENT APPLICATION NUMBER: US/09/924,103
 ; CURRENT FILING DATE: 2001-08-08
 ; NUMBER OF SEQ ID NOS: 4
 ; SOFTWARE: PatentIn Ver. 2.1
 ; LENGTH: 2073
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens

Qy 421 GCAGACGAGACAGTCAGAGCCCTTGACAAAAGCTTCTTGAACCTCAAGC 471
 Db 14482 GCAGACGAGACAGTCAGAGCCCTTGACAAAAGCTTCTTGAACCTCAAGC 14532

Query Match 33.2%; Score 156.6; DB 4; Length 2073;
 Best Local Similarity 76.0%; Pred. No. 1.2e-37;
 Matches 247; Conservative 0; Mismatches 69; Indels 9; Gaps 4;

Qy 156 TGACAGACCCAAAGGACAGAAACAGCAGAGGTCAGCACTGGGAAAGCAGAGGTGTCCTCC 215
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Qy 216 CAGGGATGGGTCCATCCACCTT--GCCGAAAGATTGTCGAGAACCTGAGAAGTGTGTCCTCC 268
 Db 280 TATGAAACAGGGTCCAAACAAAGCTTCTGTTTCAGGATCTCTGGAAACTGAAATA 339

Qy 269 AATGAAAGGAAAAAAGGGGGACAAAAGGGCAGAAATGAGGGGAGGGAGCAGAG 328
 Db 340 AACGAAAGGGAGGGAGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 399

Qy 329 GACACCTGAAATAAGGACACACCATGACCCATGACCTGAGAACATCTCC-GCCCT 387
 Db 400 GATTCCTAACAGAACGGACCCATGACCCATGACCTGAGAACATCTCC-GCCCT 459

Qy 388 AGGAAGACTCAGGGAGGGAGGACAGACAGAACAGAACAGCAGACGCCCTG 447
 Db 460 GAGGGAGGCTCAGCAGGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGCAGGCCCTG 519

Qy 448 A-CAAAAGTTCTGAACTCAAGC 471
 Db 520 ACCBAGGATTCTGGAGCTCAAGC 544

RESULT 11

Db 14062 AGCCACCAACCCAGTCCACCTTCTGCCCCAGAGCCACCTCTGTGACCTCTGTG 60 ; Sequence 2, Application US/08646301A
 ; Patent No. 6194211
 ; GENERAL INFORMATION:
 ; APPLICANT: Huber, Brian E.
 ; SEQ ID NO 2
 ; SEQ ID NO 2
 ; GENERAL INFORMATION:
 ; FILE OF INVENTION: Transcriptional Regulatory Sequence of Carcinoembryonic
 ; FILE OF INVENTION: Antigen for Expression Targeting
 ; FILE REFERENCE: PB150815W
 ; CURRENT FILING DATE: 1996-05-16
 ; NUMBER OF SEQ ID NOS: 25
 ; SOFTWARE: PatentIn Ver. 2.1
 ; LENGTH: 3774
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens

Qy 1 AGCCACCAACCCAGTCCACCTTCTGCCCCAGAGCCACCTCTGTGACCTCTGTG 60
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Qy 61 GGCAATCATCCACCTTCCAGGAGCCCTGGAGCATGGGAGACCCCTGTGG 120
 Db 14122 GGCAATCATCCACCTTCCAGGAGCCCTGGAGCATGGGAGACCCCTGTGG 14181

Query Match 99.8%; Score 471; DB 4; Length 15056;
 Best Local Similarity 100.0%; Pred. No. 9.6e-133;
 Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 181 CAGAGTGTACACTGGGAGACAGGTGTCCTCCAGGGATGGGTCCATCCACCTT 240
 Db 14242 CAGAGTGTACACTGGGAGACAGGTGTCCTCCAGGGATGGGTCCATCCACCTT 14301

Qy 241 GCGAAAGAAGATTGTCGAGGAATGAAATAAGGGGAAAGGGGACAAAGA 300
 Db 14302 GCGAAAGAAGATTGTCGAGGAATGAAATAAGGGGAAAGGGGACAAAGA 14361

Qy 301 GGCAGAAATAGAGGGAGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 360
 Db 14362 GGCAGAAATAGAGGGAGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 14421

Qy 361 CGTGTGCTGAGAAGTACTCTGCCTAGGAGAGACTAGGGAGGGAGGAGGACA 420
 Db 14422 CGTGTGCTGAGAAGTACTCTGCCTAGGAGAGACTAGGGAGGGAGGAGGACA 14481

Qy 421 GCAGACGAGACAGTCAGAGCCCTTGACAAAAGCTTCTTGAACCTCAAGC 471
 Db 14482 GCAGACGAGACAGTCAGAGCCCTTGACAAAAGCTTCTTGAACCTCAAGC 14532

RESULT 10

Qy 4 CACACCCAGTGGCCCTTTCTAGCCCCAGGCCCCCTCTGTACACTTCCCTGTTGGC 63
 Db 1662 CAGTAAACAGTGAATCTCTATCCAGCCCCAGGCCCCCTCTGTACACTTCCCTGCTGGC 1721
 ; Sequence 1, Application US/0924103
 ; Sequence 1, Application US/0924103

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 (without alignments)
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 perfect score: 472
 sequence: 1 AGCCACCACTTCACTGAGCTT.....ACGTTTCTGGAACTCAAGGA 472

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searched: 4085731 seqs, 2756760397 residues

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

result No.	Query	Score	Match	Length	DB	ID	Description
1	472	100.0	472	10	US-09-151-376-7		Sequence 7, Appli
2	472	100.0	472	10	US-09-151-376-54		Sequence 54, Appli
3	472	100.0	472	14	US-10-045-116-1		Sequence 1, Appli
4	472	100.0	472	15	US-10-119-089-7		Sequence 7, Appli
5	472	100.0	472	15	US-10-133-089-54		Sequence 54, Appli
6	472	100.0	472	18	US-10-822-873-7		Sequence 7, Appli
7	472	100.0	472	18	US-10-822-873-54		Sequence 54, Appli
8	471	99.8	11288	9	US-09-947-925-4		Sequence 4, Appli
9	471	99.8	11288	9	US-09-634-1		Sequence 1, Appli
10	471	99.8	15056	9	US-09-392-822-4		Sequence 4, Appli
11	471	99.8	15056	10	US-09-814-357-14		Sequence 14, Appli
12	471	99.8	15056	10	US-09-814-357-14		Sequence 14, Appli

No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

result	Query				DB	ID	Description
	No.	Score	Match	Length			
1	472	100.0	472	10	US-09-151-376-7		Sequence 7, AppI
2	472	100.0	472	10	US-09-151-376-54		Sequence 54, AppI
3	472	100.0	472	14	US-10-045-116-1		Sequence 1, AppI
4	472	100.0	472	15	US-10-139-089-54		Sequence 7, AppI
5	472	100.0	472	15	US-10-139-089-54		Sequence 54, AppI
6	472	100.0	472	18	US-10-822-873-7		Sequence 7, AppI
7	472	100.0	472	18	US-10-822-873-54		Sequence 54, AppI
8	471	99.8	11288	9	US-09-947-9254-4		Sequence 4, AppI
9	471	99.8	11288	9	US-09-822-634-1		Sequence 1, AppI
10	471	99.8	15056	9	US-09-392-822-4		Sequence 4, AppI
11	471	99.8	15056	10	US-09-814-357-14		Sequence 14, AppI
12	471	99.8	15056	10	US-09-814-351-14		Sequence 14, AppI

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RESULT 1
US-09-151-376-7
; Sequence 7, Application US/09151376
; Publication No. US20030044383A1
; GENERAL INFORMATION:
; APPLICANT: Henderson, D. R.
; APPLICANT: Schuur, E.R.
; TITLE OF INVENTION: TISSUE SPECIFIC VIRAL VECTOR
; FILE REFERENCE: 34022000221
; CURRENT APPLICATION NUMBER: US/09/151,376
; CURRENT FILING DATE: 1998-09-10
; EARLIER APPLICATION NUMBER: 08/669,753
; EARLIER FILING DATE: 1996-06-26
; EARLIER APPLICATION NUMBER: 08/495,034
; EARLIER FILING DATE: 1995-06-27
; NUMBER OF SEQ ID NOS: 71
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 7
; LENGTH: 472
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-151-376-7

Query . Score 472; DB 10
Query Match 100.0%; Score 472; DB 10
Best Local Similarity 100.0%; Pred. No. 2.8e+00
Matches 472; Conservative 0; Mismatches 0
Qy 1 AGCCACCCCACTCCACCTTCCAGAGCTTCTAGCCCCAGAGG
Db 1 AGCCACCCCACTTCCAGAGCTTCTAGCCCCAGAGG
Qy 61 GGATCATCCACCTTCCAGAGCTTCTAGCCCCAGAGG
Db 61 GGATCATCCACCTTCCAGAGCTTCTAGCCCCAGAGG

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Qy 121 TTTCCTCTTCAAAAGGAAATAATCCCTCGTGTGACAGACCCAAAGGACAGAACAG 180
 Db 121 TTTCCTCTTCAAAAGGAAATAATCCCTCGTGTGACAGACCCAAAGGACAGAACAG 180
 Qy 181 CAGAGGTAGACTGGGAAAGACAGGTTGTCCTCCAGGGATGGGTCCATCCATT 240
 Db 181 CAGAGGTAGACTGGGAAAGACAGGTTGTCCTCCAGGGATGGGTCCATCCATT 240
 Qy 241 GCGGAAAGATTTGTCTGGAACTGAAATAAGGGAAAGGAGAAAGA 300
 Db 241 GCGGAAAGATTTGTCTGGAACTGAAATAAGGGAAAGGAGAAAGA 300
 Qy 301 GCGAGAAATGAGGGGGAGCAGGACACCTGATAAAGGACACCCATGACCA 360
 Db 301 GCGAGAAATGAGGGGGAGCAGGACACCTGATAAAGGACACCCATGACCA 360
 Qy 361 CGTGATGCTGAGAGTACTCCCTGCCCCCTAGGAGAGACTCAGGGCAGAGGAGGACA 420
 Db 361 CGTGATGCTGAGAGTACTCCCTGCCCCCTAGGAGAGACTCAGGGCAGAGGAGGACA 420
 Qy 421 GCGAGCCGAGACTCAGGAGCTTACAAAGCTCTGAACTGAAAGA 472
 Db 421 GCGAGCCGAGACTCAGGAGCTTACAAAGCTCTGAACTGAAAGA 472

RESULT 2
 US-09-151-376-54
 / Sequence 54, Application US/09151376
 / Publication No. US20030044383A1
 / GENERAL INFORMATION:
 / APPLICANT: Henderson, D. R.
 / APPLICANT: Schuur, E. R.
 / TITLE OF INVENTION: TISSUE SPECIFIC VIRAL VECTORS
 / FILE REFERENCE: 340022000221
 / CURRENT APPLICATION NUMBER: US/09/151_376
 / CURRENT FILING DATE: 1998-09-10
 / EARLIER APPLICATION NUMBER: 08/669,753
 / EARLIER FILING DATE: 1996-06-26
 / EARLIER APPLICATION NUMBER: 08/495,034
 / EARLIER FILING DATE: 1995-06-27
 / NUMBER OF SEQ ID NOS: 71
 / SOFTWARE: PatentIn Ver. 2.0
 / SEQ ID NO 54
 / LENGTH: 472
 / TYPE: DNA
 / ORGANISM: Unknown
 / FEATURE:
 / OTHER INFORMATION: Description of Unknown Organism: Unknown
 US-09-151-376-54

Query Match 100.0%; Score 472; DB 10; Length 472;
 Best Local Similarity 100.0%; Pred. No. 2.8e-136;
 Matches 472; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCCACCCAGTGAAGCTTCTACCCCCAGGGCACCTCTGTACCTTCTGTG 60
 Db 1 AGCCACCCAGTGAAGCTTCTACCCCCAGGGCACCTCTGTACCTTCTGTG 60
 Qy 61 GGATCATCCACCTCCAGGACCTGAGGACATGGGAGACCCGGACCTGTGG 120
 Db 61 GGATCATCCACCTCCAGGACCTGAGGACATGGGAGACCCGGACCTGTGG 120
 Qy 121 TTTCCTCTTCAAAAGGAAATAATCCCTCGTGTGACAGACCCAAAGGACAG 180
 Db 121 TTTCCTCTTCAAAAGGAAATAATCCCTCGTGTGACAGACCCAAAGGACAG 180
 Qy 181 CAGAGGTAGACTGGGAAAGACAGGTTGTCCTCCAGGGATGGGTCCATCCATT 240
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Qy 301 GGAGAAATGAGGGGGAGCAGGACACCTGATAAAGGACACCCATGACCA 360
 Db 301 GGAGAAATGAGGGGGAGCAGGACACCCATGATAAAGGACACCCATGACCA 360
 Qy 361 CGTGATGCTGAGAGTACTCCCTGCCCCCTAGGAGAGACTCAGGGCAGAGGAGACA 420
 Db 361 CGTGATGCTGAGAGTACTCCCTGCCCCCTAGGAGAGACTCAGGGCAGAGGAGACA 420
 Qy 421 GCAGACCAGAGACTCAGGAGCTTACAGAGCTTGAACAAAGGCTCTGAACTCAGCA 472
 Db 421 GCAGACCAGAGACTCAGGAGCTTACAGAGCTTGAACAAAGGCTCTGAACTCAGCA 472

RESULT 3
 US-10-045-116-1
 / Sequence 1, Application US/10045116
 / Publication No. US20030026192A1
 / GENERAL INFORMATION:
 / APPLICANT: Lamparski, Henry
 / APPLICANT: Schuur, Eric
 / APPLICANT: Henderson, Daniel
 / TITLE OF INVENTION: ADENOVIRUS VECTORS SPECIFIC FOR CELLS EXPRESSION CARCINOEMBRYONIC ANTIGENS AND METHODS OF USE THEREOF

NUMBER OF SEQUENCES: 25
 CORRESPONDENCE ADDRESS:
 ADDRESSSEE: MORRISON & FOERSTER
 STREET: 755 PAGE MILL ROAD
 CITY: PALO ALTO
 STATE: CA
 COUNTRY: USA
 ZIP: 94304-1018
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.3.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/10/045,116
 FILING DATE: 23-Oct-2001
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/09/033,555A
 FILING DATE: 02-Mar-1998
 ATTORNEY/AGENT INFORMATION:
 NAME: POLIZZI, CATHERINE M.
 REGISTRATION NUMBER: 40-130
 REFERENCE/DOCKET NUMBER: 34802-30005.00
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (415) 813-5600
 TELEFAX: (415) 494-0792
 TELEX: 706141 MRSNFOERS SFO
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 472 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 SEQUENCE DESCRIPTION: SEQ ID NO: 1:
 US-10-045-116-1

Query Match 100.0%; Score 472; DB 14; Length 472;
 Best Local Similarity 100.0%; Pred. No. 2.8e-136;
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 Db 121 TTTCCTCTTCAAAAGGAAATAATCCCTCGTGTGACAGACCCAAAGGACAG 180
 Qy 181 CAGAGGTAGACTGGGAAAGACAGGTTGTCCTCCAGGGATGGGTCCATCCATT 240
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 Db 361 CGTGTATGCTGAGAAGTCACTCGCCCTAGGGAGGGAGGGAGGGAAAGGCA 420

QY 421 GCAGACCCAGACAGTACAGGAGTACTCTGCCTAGGGAGACTCGGGAGGGAAAGGCA 472
 Db 421 GCAGACCCAGACAGTACAGGAGTACTCTGCCTAGGGAGGGAGGGAAAGGCA 472

RESULT 4
 US-10-139-089-7
 Sequence 7, Application US/10139089
 Publication No. US2003015253A1
 GENERAL INFORMATION:
 APPLICANT: Henderson, D.R.
 ATTORNEY OR AGENT: Schuur, E.R.
 TITLE OF INVENTION: TISSUE SPECIFIC VIRAL VECTORS
 FILE REFERENCE: 348022000221
 CURRENT APPLICATION NUMBER: US/10/139,089
 CURRENT FILING DATE: 2002-05-02
 PRIOR APPLICATION NUMBER: 08/669,753
 PRIOR FILING DATE: 1996-06-26
 PRIOR APPLICATION NUMBER: 08/495,034
 PRIOR FILING DATE: 1995-06-27
 PRIOR APPLICATION NUMBER: 09/509,591
 PRIOR FILING DATE: 2000-06-02
 PRIOR APPLICATION NUMBER: 09/151,376
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: 09/033,428
 PRIOR FILING DATE: 1997-03-02
 PRIOR APPLICATION NUMBER: 09/033,333
 PRIOR FILING DATE: 1997-03-03
 PRIOR APPLICATION NUMBER: 09/033,555
 PRIOR FILING DATE: 1998-03-02
 PRIOR APPLICATION NUMBER: 60/039,763
 PRIOR FILING DATE: 1997-03-03
 PRIOR APPLICATION NUMBER: 60/039,597
 PRIOR FILING DATE: 1998-03-02
 PRIOR APPLICATION NUMBER: 60/039,762
 PRIOR FILING DATE: 1997-03-03
 NUMBER OF SEQ ID NOS: 71
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO 7
 LENGTH: 472
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-10-139-089-7

RESULT 5
 US-10-139-089-54
 Sequence 54, Application US/10139089
 Publication No. US2003015253A1
 GENERAL INFORMATION:
 APPLICANT: Henderson, D.R.
 ATTORNEY OR AGENT: Schuur, E.R.
 TITLE OF INVENTION: TISSUE SPECIFIC VIRAL VECTORS
 FILE REFERENCE: 348022000221
 CURRENT APPLICATION NUMBER: US/10/139,089
 CURRENT FILING DATE: 2002-05-02
 PRIOR APPLICATION NUMBER: 08/669,753
 PRIOR FILING DATE: 1996-06-26
 PRIOR APPLICATION NUMBER: 08/495,034
 PRIOR FILING DATE: 1995-06-27
 PRIOR APPLICATION NUMBER: 09/509,591
 PRIOR FILING DATE: 2000-06-02
 PRIOR APPLICATION NUMBER: 09/151,376
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: 09/033,428
 PRIOR FILING DATE: 1998-03-02
 PRIOR APPLICATION NUMBER: 60/039,597
 PRIOR FILING DATE: 1997-03-03
 PRIOR APPLICATION NUMBER: 60/039,763
 PRIOR FILING DATE: 1998-03-02
 PRIOR APPLICATION NUMBER: 60/033,333
 PRIOR FILING DATE: 1997-03-03
 NUMBER OF SEQ ID NOS: 71
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO 54
 LENGTH: 472
 TYPE: DNA
 ORGANISM: Unknown
 FEATURE:
 OTHER INFORMATION: Description of Unknown Organism: Unknown
 US-10-139-089-54
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 Best Local Similarity 100.0%; Pred. No. 2.8e-136;
 Matches 472; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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; GENERAL INFORMATION:
; APPLICANT: Yu, De-Chao
; APPLICANT: Henderson, Daniel R.
; TITLE OF INVENTION: Adenovirus Vectors Containing Cell Status-Specific Response Elements and Methods of Use Thereof
; FILE REFERENCE: 348022001200
; CURRENT APPLICATION NUMBER: US/09/392,822
; CURRENT FILING DATE: 1999-09-09
; EARLIER APPLICATION NUMBER: 60/099,791
; EARLIER FILING DATE: 1998-09-10
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO: 4
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; TYPE: DNA
; ORGANISM: Homo Sapien
; US-09-392-822-4

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Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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61 GGATCATCCACCTTCCAGAGCCCTGGAGAGCATGGAGACCCGGACCTGTGCGG 120
  14122 GGATCATCCACCTTCCAGAGCCCTGGAGAGCATGGAGACCCGGACCTGTGCGG 14181
QY
121 TTTCCTGTACADAGGAAATAATCCCCCTGGATGGAGACAGACCCAAAGGAGAAACAG 180
  14182 TTTCCTGTACAAAGGAAATAATCCCCCTGGATGGAGACAGACCCAAAGGAGAAACAG 14241
QY
181 CAGAGGTCAAGCACTGGAAAGACAGGTGTCCTCCAGGGATGGGGTCCATCCACTT 240
  14242 CAGAGTCACACTGGAAAGACAGGTGTCCTCCAGGGATGGGGTCCATCCACTT 14301
QY
241 GCCGAAAGATTTGCTGGAAACTGAAATAAGAGGGAAAGAGAGGGCAAAAGA 300
  14302 GCCGAAAGATTTGCTGGAAACTGAAATAAGAGGGAAAGAGAGGGCAAAAGA 14361
QY
301 GGCAAAATGAGGGAGGGACAGGAGACCTGAAATAAGACCAACCCCATGACCA 360
  14362 GGCAAAATGAGGGAGGGACAGGAGACCTGAAATAAGACCAACCCCATGACCA 14421
QY
361 CGTGTGCTGAGAAGTACTCTGGCTTAGGGAGACTGAGGCTAGGGAGAGGAGCA 420
  14422 CGTGTGCTGAGAAGTACTCTGGCTTAGGGAGACTGAGGCTAGGGAGAGGAGCA 14481
QY
421 GCAGACCAAGCAGTCAGAGCTGAGGCTTAGGGAGACTGAGGCTAGGGAGAGGAGCA 471
  14482 GCAGACCAAGCAGTCAGAGCTGAGGCTTAGGGAGACTGAGGCTAGGGAGAGGAGCA 14532

RESULT 11
US-09-392-822-4
; Sequence 14, Application US/09814357
; Publication No: US20030063307A1
; GENERAL INFORMATION:
; APPLICANT: Yu, De-Chao
; APPLICANT: Henderson, Daniel R.
; APPLICANT: Chen, Yu
; TITLE OF INVENTION: METHODS OF TREATING NEOPLASIA WITH COMBINATION TARGET CELL-SPECIFIC ADENOVIRUS,
; TITLE OF INVENTION: CHEMOTHERAPY AND RADIATION
; FILE REFERENCE: 348022001600
; CURRENT APPLICATION NUMBER: US/09/814,357
; CURRENT FILING DATE: 2000-10-15
; PRIORITY APPLICATION NUMBER: 60/192,015
; PRIORITY FILING DATE: 2000-03-24
; NUMBER OF SEQ ID NOS: 35
; SOFTWARE: FastSEQ for Windows Version 4.0

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SEQ ID NO 14
;
LENGTH: 15056
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TYPE: DNA
;
ORGANISM: Artificial Sequence
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FEATURE:
;
OTHER INFORMATION: CEA TRE
US-09-814-357-14

Query Match 99.8%; Score 471; DB 10; Length 15056;
Best Local Similarity 100.0%; Pred. No. 1.5e-135;
Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 14062 AGCCACCAACCGTAGCCCTTTCTAGCCCCAGGCCACCTCTGTCACCTTCCTGTTG 14121

Qy 61 GGCATATCCACCTCCAGAGCCCTGGAGACGGGGACCCGGGACCCCTGGGG 120
Db 14122 GGCATATCCACCTCCAGAGCCCTGGAGACGGGGACCCGGGACCCCTGGGG 14188

Qy 121 TTTCCTGTCAAAAGGAAAATAATCCTCCCTGGTGTGAGACCCAGAGACAGACAG 180
Db 14182 TTTCCTGTCAAAAGGAAAATAATCCTCCCTGGTGTGAGACCCAGAGACAGACAG 14241

Qy 181 CAGGGTCAGCACTGGAGACAGGGTGTCTCCAGGGGATGGGGATGGGGTCAATCCACCTT 240
Db 14242 CAGGGTCAGCACTGGAGACAGGGTGTCTCCAGGGGATGGGGTCAATCCACCTT 14301

Qy 241 GCGCAAAGGATTGTCTGAGAACCTGAAATAGAGGGAAAAAGGGAGGACAAAGA 300
Db 14302 GCGCAAAGGATTGTCTGAGAACCTGAAATAGAGGGAAAAAGGGAGGACAAAGA 14361

Qy 301 GGCAGAAATGAGGGGAGGGACAGGGACACCTGATAAAGACCAACCCATGCCCCA 360
Db 14362 GGCAGAAATGAGGGGAGGGACAGGGACACCTGATAAAGACCAACCCATGCCCCA 14423

Qy 361 CGTAGCTGAGAAGTACTCTGGCTTAGAAAGAGACTCAGGGAGAGGGAAAGGACA 420
Db 14422 CGTAGCTGAGAAGTACTCTGGCTTAGAAAGAGACTCAGGGAGAGGGAAAGGACA 14483

Qy 421 GCAGACCAAGACAGTCAGCAAGCAGCTGACAAAACGTTCTCGAACTCAAGC 471
Db 14482 GCAGACCAAGACAGTCAGCAAGCAGCTGACAAAACGTTCTCGAACTCAAGC 14532

RESULT 12
US-09-814-351-14
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Sequence 14, Application US/09814351
;
Publication No. US20030148520A1
;
GENERAL INFORMATION:
;
APPLICANT: Yu, De-Chao
;
APPLICANT: Li, Yuanhan
;
APPLICANT: Henderson, Daniel R.
;
TITLE OF INVENTION: CELL SPECIFIC ADENOVIRUS VECTORS
;
TITLE OF INVENTION: COMPRISING AN INTERNAL RIHOSOME ENTRY SITE
;
FILE REFERENCE: 148022001700
;
CURRENT APPLICATION NUMBER: US/09/814,351
;
PRIORITY NUMBER: 60/192,156
;
CURRENT FILING DATE: 2001-03-21
;
PRIORITY FILING DATE: 2000-03-24
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NUMBER OF SEQ ID NOS: 35
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SOFTWARE: FastSEQ for Windows Version 4.0
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SEQ ID NO 14
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LENGTH: 15056
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TYPE: DNA
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ORGANISM: Artificial Sequence
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FEATURE:
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OTHER INFORMATION: CEA TRE
US-09-814-351-14

Query Match 99.8%; Score 471; DB 10; Length 15056;
Best Local Similarity 100.0%; Pred. No. 1.5e-135;
Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
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Page 7

Qy 1 AGCCACCCACGTGAGCCCTTTCTAGCCCCAGGCCACCTCTGACCTTCCTGTG 60
 Db 14052 AGCCACCCACGTGAGCCCTTTCTAGCCCCAGGCCACCTCTGACCTTCCTGTG 14121
 Qy 61 GGATCATCCACCTCCAGGCCCTGGAGCATGGAGACCCGGACCTCTGTG 120
 Db 14122 GGATCATCCACCTCCAGGCCCTGGAGCATGGAGACCCGGACCTCTGTG 14181
 Qy 121 TTCTCTCTCAAAAGAAATAATCCCCCTGGTGAAGACAAACAG 180
 Db 14182 TTCTCTCTCAAAAGAAATAATCCCCCTGGTGAAGACAAACAG 14241
 Qy 181 CAGAGTCAGACTGGGGAGACGGTTGCTCCAGGGATGGGTCATCCACCTT 240
 Db 14242 CAGAGTCAGACTGGGGAGACGGTTGCTCCAGGGATGGGTCATCCACCTT 14301
 Qy 241 GCGGAAGAAGATTGTCAGGAACTGAAATAGAAGGGAAAGGAGCAAAAGA 300
 Db 14302 GCGGAAGAAGATTGTCAGGAACTGAAATAGAAGGGAAAGGAGCAAAAGA 14361
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 Db 14362 GCGGAAGAAGATTGTCAGGAACTGAAATAGAAGGGAAAGGAGCAAAAGA 14421
 Qy 361 CGTGTATGCTGAGAGTACTCCTGCCCTTGAAGAGAGTCAAGGGAGGGAAAGGACA 420
 Db 14422 CGTGTATGCTGAGAGTACTCCTGCCCTTGAAGAGAGTCAAGGGAGGGAAAGGACA 14481
 Qy 421 GCGACCCGACAGTCAGGAGCTGAAACAGTCTGGAACCTCAAGC 471
 Db 14482 GCGACCCGACAGTCAGGAGCTGAAACAGTCTGGAACCTCAAGC 14532

RESULT 15
 US-10-090-238-1
 ; Sequence 1, Application US/10090238
 ; GENERAL INFORMATION
 ; APPLICANT: The Scripps Research Institute
 ; APPLICANT: Rong Xiang
 ; APPLICANT: Ralph A. Reisfeld
 ; TITLE OF INVENTION: DNA VACCINES ENCODING CEA AND A CD40
 ; TITLE OF INVENTION: LIGAND AND METHODS OF USE THEREOF
 ; FILE REFERENCE: TSP1-810_0
 ; CURRENT APPLICATION NUMBER: US/10/090,238
 ; CURRENT FILING DATE: 2002-03-02
 ; NUMBER OF SEQ ID NOS: 3
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 1
 ; LENGTH: 3281
 ; TYPE: DNA
 ; ORGANISM: human
 us-10-090-238-1

Query Match 91.6%; Score 432.4; DB 15; Length 3281;
 Best Local Similarity 98.9%; Pred. No. 9; 8e-124; Mismatches 1; Indels 4; Gaps 3;

Matches 467; Conservative 0; Mismatches 1; Indels 4; Gaps 3;

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 Qy 61 GGATCATCCACCTCCAGGCCCTGGAGCATGGAGCCGGACCTCTGTG 120
 Db 1321 GGATCATCCACCTCCAGGCCCTGGAGCATGGAGCCGGACCTCTGTG 1379
 Qy 121 TTCTCTCTCAAAAGAAATAATCCCCCTGGTGAAGACAAACAG 180
 Db 1380 TTCTCTCTCAAAAGAAATAATCCCCCTGGTGAAGACAAACAG 1439
 Qy 181 CAGAGTCAGACTGGGG-AAGCAGGTGCTCCAGGGATGGGGTCCATCCACCT 239

GenCore version 5.1.6
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OM nucleic - nucleic search, using SW model

Run on: December 11, 2004, 06:53:29 ; Search time 3792 Seconds
(without alignments)

Perfect score: 472
Sequence: 1 AGCACCACCAAGTGAGCCT.....ACGTTCCCTGAACTCAAGCA 472

Title: US-10-045-116-1
Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searches: 44308572 seqs, 20275418765 residues

Post-processing: Minimum Match 0%
Maximum Match 100%

Total number of hits satisfying chosen parameters: 88617144
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Listing first 45 summaries

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3	472	100.0	472	15 US-10-045-116-1	Sequence 1, Appli
4	472	100.0	472	47 US-10-139-089-7	Sequence 7, Appli
5	472	100.0	472	47 US-10-089-54	Sequence 54, Appli
6	472	100.0	472	62 US-10-132-873-57	Sequence 7, Appli
7	472	100.0	472	62 US-10-822-973-54	Sequence 54, Appli
8	471	99.8	3500	54 US-10-86-319A-11	Sequence 11, Appli
9	471	99.8	3500	54 US-10-86-319B-11	Sequence 11, Appli
10	471	99.8	11288	2 PCT-US04-13487-1	Sequence 1, Appli
11	471	99.8	11288	4 US-07-841-961-6	Sequence 6, Appli
12	471	99.8	11288	9 US-08-474-420-4	Sequence 4, Appli
13	471	99.8	11288	10 US-08-547-142-4	Sequence 4, Appli
14	471	99.8	11288	14 US-09-822-634-1	Sequence 1, Appli
15	471	99.8	15056	15 US-09-033-555A-25	Sequence 25, Appli
16	471	99.8	15056	20 US-09-392-822-4	Sequence 4, Appli
17	471	99.8	15056	20 US-09-392-822A-3	Sequence 3, Appli
18	471	99.8	15056	34 US-09-014-377-14	Sequence 14, Appli
19	471	99.8	15056	45 US-10-045-116-25	Sequence 25, Appli
20	471	99.8	15056	49 US-10-226-820-10	Sequence 10, Appli
21	471	99.8	15056	57 US-10-591-045-14	Sequence 14, Appli
22	471	99.8	15056	64 US-10-938-227-3	Sequence 3, Appli
23	471	99.8	2521	40 US-09-949-016-1235	Sequence 1235, A
24	471	99.8	25321	40 US-09-949-016-1403	Sequence 14039, A
25	471	99.8	25321	64 US-10-940-774-1235	Sequence 12355, A
26	471	99.8	2521	64 US-10-940-774-1403	Sequence 14039, A
c	27	471	99.8	5401257 40 US-09-947-116-209	Sequence 209, App
c	28	432.4	91.6	3281 46 PCT-US03-06395-1	Sequence 1, Appli
c	29	432.4	91.6	3281 46 PCT-US03-06395-1	Sequence 1, Appli
c	30	432.4	91.6	3500 54 US-10-090-338-1	Sequence 2682, A
c	31	432.4	91.6	5779 82 PCT-US02-24741-2	Sequence 8089, Ap
c	32	350.4	74.2	425 49 PCT-US02-24741-2	Sequence 2, Appli
c	33	350.4	74.2	425 49 US-10-212-667-2	Sequence 2, Appli
c	34	350.4	74.2	425 97 US-60-310-905-2	Sequence 2, Appli
c	35	278.2	58.9	3500 54 US-10-486-319A-52	Sequence 52, Appli
c	36	278.2	58.9	3500 54 US-10-486-319B-52	Sequence 52, Appli
c	37	271.8	57.6	3500 54 US-10-486-319A-74	Sequence 74, Appli
c	38	271.8	57.6	3500 54 US-10-486-319B-74	Sequence 74, Appli
c	39	263.2	55.8	15862 61 US-10-765-790-14	Sequence 14, Appli
c	40	263.2	55.8	5401257 40 US-09-947-916-209	Sequence 209, App
c	41	263	55.7	3500 54 US-10-486-319A-53	Sequence 53, Appli
c	42	263	55.7	3500 54 US-10-486-319B-53	Sequence 53, Appli
c	43	256.6	54.4	3500 54 US-10-486-319A-75	Sequence 75, Appli
c	44	256.6	54.4	3500 54 US-10-486-319B-75	Sequence 75, Appli
c	45	156.6	33.2	19272 40 US-09-949-016-1346	Sequence 13462, A

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

APPLICANT: Lamparski, Henry
 APPLICANT: Schuur, Eric
 APPLICANT: Henderson, Daniel
 TITLE OF INVENTION: ADENOVIRUS VECTORS SPECIFIC FOR CELLS
 TITLE INVENTION: EXPRESSING CARCINOEMBRYONIC ANTIGENS AND METHODS OF USE
 NUMBER OF INVENTION: THEREOF
 NUMBER OF SEQUENCES: 20
 CORRESPONDENCE ADDRESS:
 ADDRESSE: MORRISON & FOERSTER
 STREET: 755 PAGE MILL ROAD
 CITY: PALO ALTO
 STATE: CA
 COUNTRY: USA
 ZIP: 94304-1018

COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY DISK
 COMPUTER: IBM PC COMPATIBLE
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0., Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/033,555
 FILING DATE:
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: POLIZZI, CATHERINE M.
 REGISTRATION NUMBER: 40,130
 REFERENCE/DOCKET NUMBER: 34802-30005.00
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (415) 813-5600
 FAX: (415) 494-0192
 TELEFAX: 706141 MRSNFORS SFO
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 472 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 US-09-033-555-1

Query Match 100.0%; Score 472; DB 15; Length 472;
 Best Local Similarity 100.0%; Pred. No. 2.8e-114;
 Matches 472; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 AGCCACCCAGGTAGCCCTTTAGCCCCAGAGCCACCTCTGTCACCTCTGTTG 60
 1 AGCCACCCAGGTAGCCCTTTAGCCCCAGAGCCACCTCTGTCACCTCTGTTG 60

Qy 1 AGCCACCCAGGTAGCCCTTTAGCCCCAGAGCCACCTCTGTCACCTCTGTTG 60
 1 AGCCACCCAGGTAGCCCTTTAGCCCCAGAGCCACCTCTGTCACCTCTGTTG 60

Qy 61 GGCAATCCACCTTCCAGAGCCTGCTGGAGAGCTGGAGACGGGACCCCTGTGG 120
 61 GGCAATCCACCTTCCAGAGCCTGCTGGAGAGCTGGAGACGGGACCCCTGTGG 120

Qy 61 GGCAATCCACCTTCCAGAGCCTGCTGGAGAGCTGGAGACGGGACCCCTGTGG 120

Qy 121 TTTCCTGTCAAAAGAAATAATCCCTGGAGAGCTGGAGACGGGACCCCTGTGG 180
 121 TTTCCTGTCAAAAGAAATAATCCCTGGAGAGCTGGAGACGGGACCCCTGTGG 180

Qy 181 CAGAGTCAGACTGGAGAGCAAGCTGGGTCCATCCACCTT 240
 181 CAGAGTCAGACTGGAGAGCAAGCTGGGTCCATCCACCTT 240

Qy 301 GGCAGAAATGAGGGGAGGGGAGGGGACCTGAATAGACCAACCCATACCCA 360
 301 GGCAGAAATGAGGGGAGGGGACCTGAATAGACCAACCCATACCCA 360

Qy 361 CGTGTGCTGAAAGTACTCTGCCCTAGAGGACTCGGAGGAGGAGGAGACA 420
 361 CGTGTGCTGAAAGTACTCTGCCCTAGAGGACTCGGAGGAGGAGGAGACA 420

Qy 421 GCAGACAGACAGTCAGAGCTGAAAGTACTCTGCCCTAGAGGACTCGGAGGAGGAGACA 472
 421 GCAGACAGACAGTCAGAGCTGAAAGTACTCTGCCCTAGAGGACTCGGAGGAGGAGACA 472

ALIGNMENTS

RESULT 1
 US-09-033-555-1
 Sequence 1, Application US/09033555
 GENERAL INFORMATION:

```

RESULT 2
US-09-033-555A-1
; Sequence 1, Application US/09033555A
; GENERAL INFORMATION:
;    APPLICANT: Lamparski, Henry
;    Schuur, Eric
;    HENDERSON, Daniel.
;    TITLE OF INVENTION: ADENOVIRUS VECTORS SPECIFIC FOR CELLS
;                      EXPRESSING CARCINOEMBRYONIC ANTIGENS AND METHODS OF USE
;    THEREOF

; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
;    ADDRESSEE: MORRISON & FOERSTER
;    STREET: 755 PAGE MILL ROAD
;    CITY: PALO ALTO
;    STATE: CA
;    ZIP: 94304-1018
; COMPUTER READABLE FORM:
;    MEDIUM TYPE: Floppy disk
;    COMPUTER: IBM PC Compatible
;    OPERATING SYSTEM: PC-DOS/MS-DOS
;    SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
;    APPLICATION NUMBER: US/09/033, 555A
;    FILING DATE: 02-Mar-1998
;    CLASSIFICATION: <Unknown>
;    ATTORNEY/AGENT INFORMATION:
;        NAME: POLIZZI, CATHERINE M.
;        REFERENCE/DOCKET NUMBER: 40, 130
;        TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (415) 813-5600
;            TELEFAX: (415) 494-0792
;            TELEX: 706141 MRENFOERS SFO
;    INFORMATION FOR SEQ ID NO: 1:
;        SEQUENCE CHARACTERISTICS:
;            LENGTH: 472 base pairs
;            TYPE: nucleic acid
;            STRANDEDNESS: double
;            TOPOLOGY: linear
;        SEQUENCE DESCRIPTION: SEQ ID NO: 1:
;    US-09-033-555A-1

; Query Match          100.0%; Score 472; DB 15; Length 472;
; Best Local Similarity 100.0%; Pred. No. 2, 8e-114;
; Matches 472; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy  1 AGCACCAACCCAGTGGACCTTCTACCCCCAGAGGCCACCTCTGTACCCRCTCTGTG 60
Db  1 AGCACCAACCCAGTGGACCTTCTAGCCCCAGAGGCCACCTCTGTACCCRCTCTGTG 60
Qy  61 GGCATCATCCCCACCTTCCAGAGCCCTGGAGAGCATGGGAGCCGGGACCTCTGTGG 120
Db  61 GGCATCATCCCCACCTTCCAGACCCCTGGAGACCATGGGAGCCGGGACCTCTGTGG 120
Qy  121 TTCTCTGTCAAAAGGAAATAATCCCCCTGGTTGTGAGACCAAGGACAAACAG 180
Db  121 TTCTCTGTCAAAAGGAAATAATCCCCCTGGTTGTGAGACCCAAAGGACAAACAG 180
Qy  181 CAGAGGTCAAGGAACTGGGAAGAACAGGTTGTCCTCCAGGGATGGGGTCATCCACCTT 240
Db  181 CAGAGGTCAAGTGGCAAGAACAGGAGGTTGTCAGGGATGGGGTCATCCACCTT 240
Qy  241 GCGAAAGAAGATTTGTCAGGGAACTGGAAATAAGAAGGAAAGAGGAGGGCAAAAGA 300
Db  241 GCGAAAGAAGATTTGTCAGGGAACTGGAAATAAGAAGGAAAGAGGAGGGCAAAAGA 300
Qy  301 GGAGAAATGACAGGGGAGGGACAGGACACCTGAAATAAGACCAACGGCATGACCA 360

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Db	301	GGGAAATGAGGGGGGGAGGAGGACACCTGAATAAGGACACCCATGACCCA	360
Qy	361	CGTGATGCTGAGAAGTACTCTGGCCTAGAAAGAGACTCGGGCAGGGAGGACA	420
Db	361	CGTGATGCTGAGAAGTACTCTGGCCTAGAAAGAGACTCGGGCAGGGAGGACA	420
Qy	421	GGGACCGAGAGTCACAGAGCTTGACAAAACTTCTGAAACTCAAGCA	472
Db	421	GGGACCGAGAGTCACAGAGCTTGACAAAACTTCTGAAACTCAAGCA	472
RESULT 3			
	US-10-045-116-1	Sequence 1, Application US/10045116	
		GENERAL INFORMATION:	
		APPLICANT: Lamparski, Henry	
		Schuur, Eric	
		Henderson, Daniel	
		TITLE OF INVENTION: ADENOVIRUS VECTORS SPECIFIC FOR CELLS EXPRESSING CARCINOEMBRYONIC ANTIGENS AND METHODS OF USE	
		NUMBER OF SEQUENCES: 25	
		CORRESPONDENCE ADDRESS:	
		ADDRESSER: MORRISON & FOERSTER	
		STREET: 755 PAGE MILL ROAD	
		CITY: PALO ALTO	
		STATE: CA	
		COUNTRY: USA	
		ZIP: 94104-1018	
		COMPUTER READABLE FORM:	
		MEDIUM TYPE: Floppy disk	
		COMPUTER: IBM PC Compatible	
		OPERATING SYSTEM: PC-DOS/MS-DOS	
		SOFTWARE: Patent in Release #1.0, Version #1.30	
		CURRENT APPLICATION DATA:	
		APPLICATION NUMBER: US/10/045,116	
		FILING DATE: 23-Oct-2001	
		CLASSIFICATION: <Unknown>	
		PRIOR APPLICATION DATA:	
		APPLICATION NUMBER: US/09/033,555A	
		FILING DATE: 02-May-1998	
		ATTORNEY/AGENT INFORMATION:	
		NAME: POLIZZI, CATHERINE M.	
		REGISTRATION NUMBER: 40,130	
		REFERENCE/DOCKET NUMBER: 34802-30005.00	
		TELECOMMUNICATION INFORMATION:	
		TELEPHONE: (415) 813-5560	
		TELEFAX: (415) 494-0792	
		TELEX: 706141 MRSINFOERS SFO	
		INFORMATION FOR SEQ ID NO: 1:	
		SEQUENCE CHARACTERISTICS:	
		LENGTH: 472 base pairs	
		TYPE: nucleic acid	
		STRANDEDNESS: double	
		TOPOLOGY: linear	
		SEQUENCE DESCRIPTION: SEQ ID NO: 1:	
	US-10-045-116-1		
Qy		Query Match 100.0% ; Score 472; DB 45; Length 472;	
		Best Local Similarity 100.0% ; Pred. No. 2.8e-114; Mismatches 0; Indels 0; Gaps 0;	
Db		Matches 472; Conservative 0; MisMatches 0; Indels 0; Gaps 0;	
Qy	1	AGGCCACCACTGAGCTTCTGGAGCCCTGAGCTGACCCAGGGAGCCCTGCTGG 60	
Db	1	AGGCCACCACTGAGCTTCTGGAGCCCTGAGCTGACCCAGGGAGCCCTGCTGG 60	
Qy	61	GGGATCATCCACCTTCCAGGCGCTGAGGAGCATGGGAGACCCGGACCTCTGG 120	
Db	61	GGGATCATCCACCTTCCAGGCGCTGAGGAGCATGGGAGACCCGGACCTCTGG 120	
Qy	121	TTCCTCTGCTACAAAGGAAATACTCCCTGGCTGACCCAGGGACCTGGAGCAG 180	
Db	121	TTCCTCTGCTACAAAGGAAATACTCCCTGGCTGACCCAGGGACCTGGAGCAG 180	

Qy 181 CAGAGGTAGCACTGGGGAGACAGTTGCTCCAGGGATGGGGTCATCCACCTT 240
 Db 181 CAGAGGTAGCACTGGGGAGACAGTTGCTCCAGGGATGGGGTCATCCACCTT 240
 Qy 241 GCGGAAGATTGTTGAGGACTGAAATAGAAGGAAAGGGGACAAAGA 300
 Db 241 GCGGAAGATTGTTGAGGACTGAAATAGAAGGAAAGGGGACAAAGA 300
 Qy 301 GCGGAAGATTGAGGGGAGACAGACCTGATAAGACCAACCCATGACCA 360
 Db 301 GCGGAAGATTGAGGGGAGACAGACCTGATAAGACCAACCCATGACCA 360
 Qy 361 CGTGATGCTGAGAAGTACTCTGGCCCTAGGAGAGACTCGGAGGGAGGAGCA 420
 Db 361 CGTGATGCTGAGAAGTACTCTGGCCCTAGGAGAGACTCGGAGGGAGGAGCA 420
 Qy 421 GCAGACCGAGACTCAGCAGCCTGACAAACGTTCTGAACTCAAGCA 472
 Db 421 GCAGACCGAGACTCAGCAGCCTGACAAACGTTCTGAACTCAAGCA 472

RESULT 4
 US-10-139-089-7 Application US/10139089
 / Sequence 7, Application US/10139089
 / GENERAL INFORMATION
 / APPLICANT: Henderson, D.R.
 / APPLICANT: Schuur, E.R.
 / TITLE OF INVENTION: TISSUE SPECIFIC VIRAL VECTORS
 / FILE REFERENCE: 348022000221
 / CURRENT APPLICATION NUMBER: US/10/139, 089
 / CURRENT FILING DATE: 2002-05-02
 / PRIOR APPLICATION NUMBER: 08/669, 753
 / PRIOR FILING DATE: 1996-06-26
 / PRIOR APPLICATION NUMBER: 08/1495, 034
 / PRIOR FILING DATE: 1995-06-27
 / PRIOR APPLICATION NUMBER: 09/509, 591
 / PRIOR FILING DATE: 2000-06-02
 / PRIOR APPLICATION NUMBER: 09/151, 376
 / PRIOR FILING DATE: 1998-09-10
 / PRIOR APPLICATION NUMBER: 09/033, 428
 / PRIOR FILING DATE: 1998-03-02
 / PRIOR APPLICATION NUMBER: 60/039, 597
 / PRIOR FILING DATE: 1997-03-03
 / PRIOR APPLICATION NUMBER: 09/033, 555
 / PRIOR FILING DATE: 1998-03-02
 / PRIOR APPLICATION NUMBER: 60/039, 763
 / PRIOR FILING DATE: 1997-03-03
 / PRIOR APPLICATION NUMBER: 09/033, 333
 / PRIOR FILING DATE: 1998-03-02
 / PRIOR APPLICATION NUMBER: 60/039, 762
 / PRIOR FILING DATE: 1997-03-03
 / SOFTWARE: PatentIn Ver. 2.0
 / SEQ ID NO: 7
 / LENGTH: 472
 / TYPE: DNA
 / ORGANISM: Homo sapiens
 US-10-139-089-7

Query Match 100.0%; Score 472; DB 47; Length 472;
 Best Local Similarity 100.0%; Pred. No. 2.8e-114; Mismatches 0; Indels 0; Gaps 0;
 Matches 472; Conservative 0; Other Information: Description of Unknown Organism: Unknown

Qy 1 AGCCACCCAGTGGCCCTTCTAGCCCCAGGGCACCTCTGACCTTCCTGTG 60
 Db 1 AGCCACCCAGTGGCCCTTCTAGCCCCAGGGCACCTCTGACCTTCCTGTG 60
 Qy 61 GGATCATCCCACCTTCCAGAGCCCTGGAGAGCATGGGAGACCCGGACCTGG 120
 Db 61 GGATCATCCCACCTTCCAGAGCCCTGGAGAGCATGGGAGACCCGGACCTGG 120
 Qy 121 TTCTCTGTCACAAAGGAAATAATCCCTGGTGTGACAGACCCAAAGGACAG 180

RESULT 5
 US-10-139-089-54 Application US/10139089
 / Sequence 54, Application US/10139089
 / GENERAL INFORMATION
 / APPLICANT: Henderson, D.R.
 / APPLICANT: Schuur, E.R.
 / TITLE OF INVENTION: TISSUE SPECIFIC VIRAL VECTORS
 / FILE REFERENCE: 348022000221
 / CURRENT APPLICATION NUMBER: US/10/139, 089
 / CURRENT FILING DATE: 2002-05-02
 / PRIOR APPLICATION NUMBER: 08/669, 753
 / PRIOR FILING DATE: 1996-06-26
 / PRIOR APPLICATION NUMBER: 08/1495, 034
 / PRIOR FILING DATE: 1995-06-27
 / PRIOR APPLICATION NUMBER: 09/509, 591
 / PRIOR FILING DATE: 2000-06-02
 / PRIOR APPLICATION NUMBER: 09/151, 376
 / PRIOR FILING DATE: 1998-09-10
 / PRIOR APPLICATION NUMBER: 09/033, 428
 / PRIOR FILING DATE: 1998-03-02
 / PRIOR APPLICATION NUMBER: 60/039, 597
 / PRIOR FILING DATE: 1997-03-03
 / PRIOR APPLICATION NUMBER: 09/033, 555
 / PRIOR FILING DATE: 1998-03-02
 / PRIOR APPLICATION NUMBER: 60/039, 763
 / PRIOR FILING DATE: 1997-03-03
 / PRIOR FILING DATE: 1998-03-02
 / PRIOR APPLICATION NUMBER: 09/033, 333
 / PRIOR FILING DATE: 1997-03-03
 / NUMBER OF SEQ ID NOS: 71
 / NUMBER OF SEQ ID NOS: 71
 / SOFTWARE: PatentIn Ver. 2.0
 / SEQ ID NO: 54
 / LENGTH: 472
 / TYPE: DNA
 / ORGANISM: Unknown
 / FEATURE:
 / OTHER INFORMATION: Description of Unknown Organism: Unknown
 US-10-139-089-54

Query Match 100.0%; Score 472; DB 47; Length 472;
 Best Local Similarity 100.0%; Pred. No. 2.8e-114; Mismatches 0; Indels 0; Gaps 0;
 Matches 472; Conservative 0; Other Information: Description of Unknown Organism: Unknown

Qy 1 AGCCACCCAGTGGCCCTTCTAGCCCCAGGGCACCTCTGACCTTCCTGTG 60
 Db 1 AGCCACCCAGTGGCCCTTCTAGCCCCAGGGCACCTCTGACCTTCCTGTG 60
 Qy 61 GGATCATCCCACCTTCCAGAGCCCTGGAGAGCATGGGAGACCCGGACCTGG 120
 Db 61 GGATCATCCCACCTTCCAGAGCCCTGGAGAGCATGGGAGACCCGGACCTGG 120
 Qy 121 TTCTCTGTCACAAAGGAAATAATCCCTGGTGTGACAGACCCAAAGGACAG 180

61 GGATCATCCACCTCCAGACCCCTGAGACCTGGACCCGGACCTGG 120
 Db 61 GGATCATCCACCTCCAGACCCCTGAGACCTGGACCCGGACCTGG 120
 Qy 121 TTTCTCTCTCACAGGAAATAATCCCCTGTGAGACCCAGAGAACAG 180
 Db 121 TTTCTCTCTCACAGGAAATAATCCCCTGTGAGACCCAGAGAACAG 180
 Qy 181 CAGAGTCTGAGACTGGGAAAGACGGTCTCCAGGGATGGGGTCCATCCCT 240
 Db 181 CAGAGTCTGAGACTGGGAAAGACGGTCTCCAGGGATGGGGTCCATCCCT 240
 Qy 241 GCGAAAGATTTGAGGAACTGAAATAAGGGGAAAGGAGGAAAGAA 300
 Db 241 GCGAAAGATTTGAGGAACTGAAATAAGGGGAAAGGAGGAAAGAA 300
 Qy 301 GCGAAAGATTTGAGGAACTGAAATAAGGGGAAAGGAGGAAAGAA 300
 Db 301 GCGAAAGATTTGAGGAACTGAAATAAGGGGAAAGGAGGAAAGAA 300
 Qy 361 CGTGATGTTGAGAGTACTCTGCCCTGAGAGACTCGGGAGGGAGGCA 420
 Db 361 CGTGATGTTGAGAGTACTCTGCCCTGAGAGACTCGGGAGGGAGGCA 420
 Qy 421 GCGACCCAGACAGTCACGAGCCTGACAAACGTTCTGGAACTAGCA 472
 Db 421 GCGACCCAGACAGTCACGAGCCTGACAAACGTTCTGGAACTAGCA 472

RESULT 7
 US-10-822-873-54
 ; Sequence 54, Application US/10822873
 ; GENERAL INFORMATION:
 ; APPLICANT: Henderson, D.R.
 ; ATTORNEY/AGENT: Schuur, E.R.
 ; TITLE OF INVENTION: TISSUE SPECIFIC ADENOVIRAL VECTORS
 ; FILE REFERENCE: CELL-004CON2
 ; CURRENT APPLICATION NUMBER: US/10/822, 873
 ; CURRENT FILING DATE: 2004-04-13
 ; PRIOR APPLICATION NUMBER: 09/732, 169
 ; PRIOR FILING DATE: 2000-12-06
 ; PRIOR APPLICATION NUMBER: 09/151, 376
 ; PRIOR FILING DATE: 1998-09-10
 ; PRIOR APPLICATION NUMBER: 08/669, 753
 ; PRIOR FILING DATE: 1998-06-26
 ; PRIOR APPLICATION NUMBER: 08/669, 753
 ; NUMBER OF SEQ ID NOS: 71
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO: 54
 ; LENGTH: 472
 ; TYPE: DNA
 ; ORGANISM: Unknown
 ; FEATURE:
 ; OTHER INFORMATION: Description of Unknown Organism: Unknown
 US-10-822-873-54

Query Match 100.0%; Score 472; DB 62; Length 472;
 Best Local Similarity 100.0%; Pred. No. 2.8e-114;
 Matches 472; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCCACCCAGTGGGAAGGAAATATCCCCTGAGGACCTGGCTGG 120
 Db 1 AGCCACCCAGTGGGAAGGAAATATCCCCTGAGGACCTGGCTGG 120
 Qy 61 GGATCATCCACCTCCAGAGCCCTGGAGAGCTGGGACCCCTGCTGG 120
 Db 61 GGATCATCCACCTCCAGAGCCCTGGAGAGCTGGGACCCCTGCTGG 120
 Qy 61 GGATCATCCACCTCCAGAGCCCTGGAGAGCTGGGACCCCTGCTGG 120
 Db 61 GGATCATCCACCTCCAGAGCCCTGGAGAGCTGGGACCCCTGCTGG 120
 Qy 121 TTTCTCTCTCACAGGAAATAATCCCCTGTGAGACCCAGAGAACAG 180
 Db 121 TTTCTCTCTCACAGGAAATAATCCCCTGTGAGACCCAGAGAACAG 180
 Qy 181 CAGGGTAGCAGACTGGGAAGGAGACTGAAATAAGGGAAAGGAGGAAAGAA 300
 Db 181 CAGGGTAGCAGACTGGGAAGGAGACTGAAATAAGGGAAAGGAGGAAAGAA 300
 Qy 241 GCGAAAGATTTGAGGAACTGAAATAAGGGGAAAGGAGGAAACCTG 240
 Db 241 GCGAAAGATTTGAGGAACTGAAATAAGGGGAAAGGAGGAAACCTG 240
 Qy 301 GCGAAAGATTTGAGGAACTGAAATAAGGGGAAAGGAGGAAACCTG 360
 Db 301 GCGAAAGATTTGAGGAACTGAAATAAGGGGAAAGGAGGAAACCTG 360

SEQ ID NO 11
; LENGTH: 3500
; TYPE: DNA
; ORGANISM: Homo Sapiens
; US-10-486-319B-11

Query Match 99.8%; Score 471; DB 54; Length 3500;
Best Local Similarity 100.0%; Pred. No. 9_9e-114;
Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query 1 AGCCACACCCAGTGACCCAGAGCCACCTCTGTCACCTTCCCTGTTG 60
Db 2506 AGCCACACCCAGTGACCCAGAGCCACCTCTGTCACCTTCCCTGTTG 2565

Query 61 GGATCATTCCACCTTCCAGGCCCTGAGGATGGAGACCCGACCTGGG 120
Db 2566 GGATCATTCCACCTTCCAGGCCCTGAGGATGGAGACCCGACCTGGG 2625

Query 121 TTCTCTGTACAGGAAATAATCCCTGGTGAAGACAGACAGACAG 180
Db 2626 TTCTCTGTACAGGAAATAATCCCTGGTGAAGACAGACAGACAG 2685

Query 181 CAGGGTCAGCACTGGGAAGACAGTTCCTCCAGGGATGGGTCATCCCTT 240
Db 2686 CAGGGTCAGCACTGGGAAGACAGTTCCTCCAGGGATGGGTCATCCCTT 2745

Query 241 GCGGAAAGATTGTTCTGGAACCTGAAATAGGAGGGACAAAGA 300
Db 2746 GCCAAAGATGTTCTGGAACCTGAAATAGGAGGGACAAAGA 2805

Query 301 GGCGAAATGAGGGGGAGAGAGACACCTGATAAAGGACACCCATGGCC 360
Db 2806 GGCGAAATGAGGGGGAGAGAGACACCTGATAAAGGACACCCATGGCC 2865

Query 361 CGTGATGCTGAGACTCTCTGCCTCTGAAAGAGCTCAGGGAGGGAGCA 420
Db 2866 CGTGATGCTGAGACTCTCTGCCTCTGAAAGAGCTCAGGGAGGGAGCA 2925

Query 421 GCAGACAGACAGTCACAGCAGCTGAGTACTCTGCTCTGAGCTAGGGAGGGAGCA 471
Db 2926 GCAGACAGACAGTCACAGCAGCTGAGTACTCTGCTCTGAGCTAGGGAGGGAGCA 2976

RESULT 10
; PCU-US04-13487-1
; Sequence 1, Application PC/TUS0413487
; GENERAL INFORMATION:
; APPLICANT: Epigenomics AG
; TITLE OF INVENTION: Method and nucleic acids for the analysis of colon cancer
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/486_319A
; CURRENT FILING DATE: 2004-02-09
; NUMBER OF SEQ ID NOS: 527
; SEQ ID NO 11
; LENGTH: 3500
; TYPE: DNA
; ORGANISM: Homo Sapiens
; US-10-486-319A-11

Query Match 99.8%; Score 471; DB 54; Length 3500;
Best Local Similarity 100.0%; Pred. No. 9.9e-114;
Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query 1 AGCCACACCCAGTGACCCAGAGCCACCTCTGTCACCTTCCCTGTTG 60
Db 2506 AGCCACACCCAGTGACCCAGAGCCACCTCTGTCACCTTCCCTGTTG 2565

Query 61 GGATCATTCCACCTTCCAGGCCCTGAGGATGGAGACCCGACCTGGG 120
Db 2566 GGATCATTCCACCTTCCAGGCCCTGAGGATGGAGACCCGACCTGGG 2625

Query 121 TTCTCTGTACAGGAAATAATCCCTGGTGAAGACAGACAGACAG 180
Db 2626 TTCTCTGTACAGGAAATAATCCCTGGTGAAGACAGACAGACAG 2685

Query 181 CAGGGTCAGCACTGGGAAGACAGTTCCTCCAGGGATGGGTCATCCCTT 240
Db 2686 CAGGGTCAGCACTGGGAAGACAGTTCCTCCAGGGATGGGTCATCCCTT 2745

Query 241 GCGGAAAGATTGTTCTGGAACCTGAAATAGGAGGGACAAAGA 300
Db 2746 GCCAAAGATGTTCTGGAACCTGAAATAGGAGGGACAAAGA 2805

Query 301 GGCGAAATGAGGGGGAGAGAGACACCTGATAAAGGACACCCATGGCC 360
Db 2806 GGCGAAATGAGGGGGAGAGAGACACCTGATAAAGGACACCCATGGCC 2865

Query 361 CGTGATGCTGAGACTCTCTGCCTCTGAAAGAGCTCAGGGAGGGAGCA 420
Db 2866 CGTGATGCTGAGACTCTCTGCCTCTGAAAGAGCTCAGGGAGGGAGCA 2925

Query 421 GCAGACAGACAGTCACAGCAGCTGAGTACTCTGCTCTGAGCTAGGGAGGGAGCA 471
Db 2926 GCAGACAGACAGTCACAGCAGCTGAGTACTCTGCTCTGAGCTAGGGAGGGAGCA 2976

RESULT 11
; PCU-US04-13487-1
; Sequence 1, Application PC/TUS0413487
; GENERAL INFORMATION:
; APPLICANT: DONG, JIAN-YUN
; APPLICANT: RUBINCHIK, SEMYON
; APPLICANT: WORATANADHARM, JAN
; TITLE OF INVENTION: AN AUTOLOGOUS UPREGULATION MECHANISM ALLOWING OPTIMIZED
; FILE REFERENCE: MESC-014HO
; CURRENT APPLICATION NUMBER: PCT/US04/13487
; CURRENT FILING DATE: 2004-04-30
; PRIOR APPLICATION NUMBER: 60/467,171
; PRIOR FILING DATE: 2003-05-01
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 1
; LENGTH: 11288
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (10804 .. (10938)
; PCT-US04-13487-1

Query Match 99.8%; Score 471; DB 2; Length 11288;
Best Local Similarity 100.0%; Pred. No. 1.5e-113;
Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query 1 AGCCACACCCAGTGACCCAGAGCCACCTCTGTCACCTTCCCTGTTG 60

10294 AGCACCAACCCAGTGGCTTCTAGCCCCGAGCCACCTCTGTACCTTCCTGTG 10353
 61 GGGATCATCCACCTTCCAGGCCCTGGAGAGATGGGAGACCTGTGG 120
 10354 GGGATCATCCACCTTCCAGGCCCTGGAGAGATGGGAGACCTGTGG 10413
 Db 121 TTCTCTCTCAAAAGGAAATAATCCCCCTGGTGTGAGACAGAACAG 180
 Qy 10414 TTCTCTCTCAAAAGGAAATAATCCCCCTGGTGTGAGACAGAACAG 10473
 Db 181 CAGGGCTGAGCTGGGAAAGAGGAGCAAGGAGAACATCACCT 240
 Qy 10474 CAGGGCTGAGCTGGGAAAGAGGAGCAAGGAGAACATCACCT 10533
 Db 241 GCGAAAGATGTTCTAGGAGCTGAATAAGGGAAAGAGGGACAAAGA 300
 Qy 10534 GCGAAAGATGTTCTAGGAGCTGAATAAGGGAAAGAGGGACAAAGA 10593
 Db 301 GCGAAAGATGAAAGGAAATAATCCCCCTGGTGTGAGACAGAACAG 360
 Qy 10594 GCGAAAGATGAAAGGAAATAAGGGAAAGAGGGACAAAGC 10653
 Db 361 CGTGATGCTGAGATGTTCTGGAGACTGAATAAGGGAAAGAGGGAC 420
 Qy 10654 CGTGATGCTGAGATGTTCTGGAGACTGAATAAGGGAAAGAGGGAC 10713
 Db 421 GCGACCCAGACGTACAGCAGCTGGCTTGAACAAAGCTTCTGAACTAACG 471
 Qy 10714 GCGACCCAGACGTACAGCAGCTGGCTTGAACAAAGCTTCTGAACTAACG 10764
 Db
 RESULT 11
 US-07-841-961-6
 ; Sequence 6, Application US/07841961
 ; GENERAL INFORMATION:
 ; APPLICANT: Huber, Brian
 ; APPLICANT: Richards, Cynthia A
 ; APPLICANT: Krenitsky, Thomas A
 ; TITLE OF INVENTION: NOVEL ENTITIES FOR CANCER THERAPY
 ; NUMBER OF SEQUENCES: 10
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Donald Brown; Dike, Bronstein, Roberts &
 ; STREET: 130 Water Street
 ; CITY: Boston
 ; STATE: Massachusetts
 ; ZIP: 02109-4280
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #.24
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/07/841,961
 ; FILING DATE: 19920226
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Brown, Donald
 ; REGISTRATION NUMBER: 20845
 ; REFERENCE/DOCKET NUMBER: 40361-CIP2
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 617-523-3400
 ; TELEX: 617-523-6440
 ; FAX: 617-523-6440
 ; INFORMATION FOR SEQ ID NO: 6:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 11288 base pairs
 ; TYPE: NUCLEIC ACID
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: DNA (genomic)

Db 10294 AGCACCAACCCAGTGGCTTCTAGCCCCGAGCCACCTCTGTACCTTCCTGTG 10353
 Qy 61 GGGATCATCCACCTTCCAGGCCCTGGAGAGATGGGAGACCTGTGG 120
 Db 10354 GGGATCATCCACCTTCCAGGCCCTGGAGAGATGGGAGACCTGTGG 10413
 Qy 121 TTCTCTCTCAAAAGGAAATAATCCCCCTGGTGTGAGACAGAACAG 180
 Db 10414 TTCTCTCTCAAAAGGAAATAATCCCCCTGGTGTGAGACAGAACAG 10473
 Qy 181 CAGGGCTGAGCTGGGAAAGAGGAGCAAGGAGAACATCACCT 240
 Db 10474 CAGGGCTGAGCTGGGAAAGAGGAGCAAGGAGAACATCACCT 10533
 Qy 241 GCGAAAGATGTTCTAGGAGCTGAATAAGGGAAAGAGGGACAAAGA 300
 Db 10534 GCGAAAGATGTTCTAGGAGCTGAATAAGGGAAAGAGGGACAAAGA 10593
 Qy 301 GCGAAAGATGAAAGGAAATAATCCCCCTGGTGTGAGACAGAACAG 360
 Db 10594 GCGAAAGATGAAAGGAAATAATCCCCCTGGTGTGAGACAGAACAG 10653
 Qy 361 CGTGATGCTGAGATGTTCTGGAGACTGAATAAGGGAAAGAGGGAC 420
 Db 10654 CGTGATGCTGAGATGTTCTGGAGACTGAATAAGGGAAAGAGGGAC 10713
 Qy 421 GCGACCCAGACGTACAGCAGCTGGCTTGAACAAAGCTTCTGAACTAACG 471
 Db 10714 GCGACCCAGACGTACAGCAGCTGGCTTGAACAAAGCTTCTGAACTAACG 10764
 Db
 RESULT 12
 US-08-474-420-4
 ; Sequence 4, Application US/08474420
 ; GENERAL INFORMATION:
 ; APPLICANT: Huber, Brian
 ; APPLICANT: Richards, Cynthia A
 ; APPLICANT: Austin, Elizabeth A
 ; TITLE OF INVENTION: NOVEL ENTITIES FOR CANCER THERAPY
 ; NUMBER OF SEQUENCES: 10
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Rothwell, Figg, Ernst & Kurz, P C.
 ; STREET: Suite 701 East Tower, 555 13th St., N.W.
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: USA
 ; ZIP: 20004
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #.24
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/474,420
 ; FILING DATE: 7-JUNE-1995
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/154,712
 ; FILING DATE: 19-NOV-1993

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/841,961
 FILING DATE: 26-FEB-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/662,222
 FILING DATE: 22-FEB-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/574,994
 FILING DATE: 29-AUG-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: UK 9919607.5
 FILING DATE: 30-AUG-1999
 ATTORNEY/AGENT INFORMATION:
 NAME: NEWLAND, BART
 REFERENCE/DOCKET NUMBER: 1808-188A
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-783-6040
 TELEFAX: 202-783-6031
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 11288 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 FRAGMENT TYPE: N-terminal
 US-08-474-420-4

Query Match 99.8%; Score 471; DB 9; Length 11288;
 Best Local Similarity 100.0%; Pred. No. 1.5e-113; Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCCACCAACCCAGTGAACCTTTCTAGCCCCAGGCCACCTCTGACCTTCCTGTTG 60
 Db 10294 AGCCACCAACCCAGTGAACCTTTCTAGCCCCAGGCCACCTCTGACCTTCCTGTTG 10353

Qy 61 GGATATCCACCTTCCAGAGCCCTGAGGAGATGGAGACCCGGACCCGGACCCGG 120
 Db 10354 GGATATCCACCTTCCAGAGCCCTGAGGAGATGGAGACCCGGACCCGGACCCGG 10413

Qy 121 TTCTCTTCACAAAGGAAATAATCCCTTGTTGACAGCCCCAGGAGAACAG 180
 Db 10414 TTCTCTTCACAAAGGAAATAATCCCTTGTTGACAGCCCCAGGAGAACAG 10473

Qy 181 CAGAGGTCAGCTGGGAAAGACAGGTTGCTCTCCAGGGATGCCATCCATT 240
 Db 10474 CAGAGGTCAGCTGGGAAAGACAGGTTGCTCTCCAGGGATGCCATCCATT 10533

Qy 241 GCGGAAGAAGATTTCTCAGGACTGAACTGAAATAGAGGGAAANAGAGGGCAANAGA 300
 Db 10534 GCGGAAGAAGATTTCTCAGGACTGAAATAGAGGGAAANAGAGGGCAANAGA 10593

Qy 301 GCGGAAGAAGATGAGGGGAGAGAGAACCTGAAATAGAGGGAAAGGACA 360
 Db 10594 GCGGAAGAAGATGAGGGGAGAGAGAACCTGAAATAGAGGGAAAGGACA 10653

Qy 361 CGTGATGCTGAGAGTACTCTGCCCTTGAAGAGAGTCAAGGAGAGGAAAGGACA 420
 Db 106554 CGTGATGCTGAGAGTACTCTGCCCTTGAAGAGAGTCAAGGAGAGGAAAGGACA 10713

Qy 421 GCGGACCCGAGACAGTCAGGAGACCTTCAAAACGTTCTGGAACCTCAAGC 471
 Db 10714 GCGGACCCGAGACAGTCAGGAGACCTTCAAAACGTTCTGGAACCTCAAGC 10764

RESULT 13
 US-08-547-142-4

Sequence 4, Application US/08547142
 GENERAL INFORMATION:
 APPLICANT: HUBER, BRIAN
 APPLICANT: RICHARDS, CYNTHIA A

APPLICANT: JUSTIN, ELIZABETH A
 TITLE OF INVENTION: NOVEL ENTITIES FOR CANCER THERAPY
 NUMBER OF SEQUENCES: 10
 CORRESPONDENCE ADDRESS:
 ADDRESSEES: ROTHWELL, PIGG, ERNST & KURZ, P.C.
 STREET: SUITE 701 EAST TOWER, 555 13TH ST., N.W.
 CITY: WASHINGTON
 STATE: D.C.
 COUNTRY: USA
 ZIP: 20004
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC Compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patient in Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/547,142
 FILING DATE: 24-OCT-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/154,712
 FILING DATE: 19-NOV-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/841,961
 FILING DATE: 26-FEB-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/662,222
 FILING DATE: 22-FEB-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/574,994
 FILING DATE: 29-AUG-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: UK 8919607.5
 FILING DATE: 30-AUG-1989
 ATTORNEY/AGENT INFORMATION:
 NAME: NEWLAND, BART
 REFERENCE/DOCKET NUMBER: 1808-190A
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-783-6040
 TELEFAX: 202-783-6031
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 11288 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 FRAGMENT TYPE: N-terminal
 US-08-474-420-4

Query Match 99.8%; Score 471; DB 10; Length 11288;
 Best Local Similarity 100.0%; Pred. No. 1.5e-113; Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCCACCAACCCAGTGAACCTTTCTAGCCCCAGGCCACCTCTGACCTTCCTGTTG 60
 Db 10294 AGCCACCAACCCAGTGAACCTTTCTAGCCCCAGGCCACCTCTGACCTTCCTGTTG 10353

Qy 61 GGATATCCACCTTCCAGAGCCCTGAGGAGATGGAGACCCGGACCCGGACCCGG 120
 Db 10354 GGATATCCACCTTCCAGAGCCCTGAGGAGATGGAGACCCGGACCCGGACCCGG 10413

Qy 121 TTCTCTTCACAAAGGAAATAATCCCTTGTTGACAGCCCCAGGAGAACAG 180
 Db 10414 TTCTCTTCACAAAGGAAATAATCCCTTGTTGACAGCCCCAGGAGAACAG 10473

Qy 181 CAGAGGTCAGCTGGGAAAGACAGGTTGCTCTCCAGGGATGCCATCCATT 240
 Db 10474 CAGAGGTCAGCTGGGAAAGACAGGTTGCTCTCCAGGGATGCCATCCATT 10533

Qy 241 GCGGAAGAAGATTTCTCAGGACTGAAATAGAGGGAAANAGAGGGCAANAGA 300
 Db 10534 GCGGAAGAAGATTTCTCAGGACTGAAATAGAGGGAAANAGAGGGCAANAGA 10593

Qy 301 GCGGAAGAAGATGAGGGGAGAGAGAACCTGAAATAGAGGGAAAGGACA 360
 Db 10594 GCGGAAGAAGATGAGGGGAGAGAGAACCTGAAATAGAGGGAAAGGACA 10653

Qy 361 CGTGATGCTGAGAGTACTCTGCCCTTGAAGAGAGTCAAGGAGAGGAAAGGACA 420
 Db 106554 CGTGATGCTGAGAGTACTCTGCCCTTGAAGAGAGTCAAGGAGAGGAAAGGACA 10713

Qy 421 GCGGACCCGAGACAGTCAGGAGACCTTCAAAACGTTCTGGAACCTCAAGC 471
 Db 10714 GCGGACCCGAGACAGTCAGGAGACCTTCAAAACGTTCTGGAACCTCAAGC 10764

RESULT 13
 US-08-547-142-4

Sequence 4, Application US/08547142
 GENERAL INFORMATION:
 APPLICANT: HUBER, BRIAN
 APPLICANT: RICHARDS, CYNTHIA A

Qy 181 CAGAGGTCAGCTGGGAAAGACAGGTTGCTCTCCAGGGATGCCATCCATT 240
 Db 10474 CAGAGGTCAGCTGGGAAAGACAGGTTGCTCTCCAGGGATGCCATCCATT 10533

Qy 241 GCGGAAGAAGATTTCTCAGGACTGAAATAGAGGGAAANAGAGGGCAANAGA 300

Db 10534 GCGGAAGAAGATTGTCTAGGAACTGAAATAGAACGGAAAAAGGGACACAAAGA 10593
 Qy 301 GCGGAAGAATGAGAGGGGAGAGGAGAACCTGATAAAGAACCAACCCATGCCA 360
 Db 10594 GCGGAAGAATGAGGGGAGGGAGAACCTGATAAAGAACCAACCCATGCCA 10653
 Qy 361 CGTATGGTGAAGAGTACTCTGCTCCCTAGGAGAGAATCAGGGAGGGAGCA 420
 Db 10654 CGTATGGTGAAGAGTACTCTGCTCCCTAGGAGAGTCAAGGAGGGAGCA 10713
 Qy 421 GCGACCCGACACTCAGCGACCTGAAACAGTCTCTGGAACTCAAGC 471
 Db 10714 GCGACCCGACACTCAGCGACCTGAAACAGTCTCTGGAACTCAAGC 10764

RESULT 14
US-09-822-634-1
Sequence 1, Application US/09822634GENERAL INFORMATION:
APPLICANT: Vile, Richard G.

APPLICANT: Harrington, Kevin

APPLICANT: Bateman, Andrew

APPLICANT: Murphy, Steven

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TISSUE

TITLE OF INVENTION: SPECIFIC GENE REGULATION THERAPY

FILE REFERENCE: 07039-289001

CURRENT APPLICATION NUMBER: US/09/822,634

CURRENT FILING DATE: 2001-03-30

PRIOR APPLICATION NUMBER: 60/193,977

PRIOR FILING DATE: 2000-03-31

NUMBER OF SEQ ID NOS: 18

SOFTWARE: FastSEQ for Windows Version 4.0

LOCATION: (10804) . . . (10935)

SEQ ID NO 1
LENGTH: 11288

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE NAME/KEY: CDS

LOCID: 09-822-634-1

Query Match 99.8%; Score 471; DB 34; Length 11288;
 Best Local Similarity 100.0%; Pred. No. 1.5e-113;
 Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCCACCCAGTGAGCTTTCTGCCCTAGAGCACCTCTGAACTCTCTGTG 60
 Db 10294 AGCCACCCAGTGAGCTTTCTGCCCTAGAGCACCTCTGAACTCTCTGTG 10353
 Qy 61 GGCATATCCCACCTCCAGAGCCCTGGAGGATGGGACCCGGACCTCTGTG 10413
 Db 10354 GGCATATCCCACCTCCAGAGCCCTGGAGGATGGGACCCGGACCTCTGTG 10413
 Qy 121 TTCTCTCTCAAAAGAAATACTCCCTCTGTGAACTGACCCAGAACAG 180
 Db 10414 TTCTCTCTCAAAAGAAATACTCCCTCTGTGAACTGACCCAGAACAG 10473

Qy 61 GGCATATCCCACCTCCAGAGCCCTGGAGGATGGGACCCGGACCTCTGTG 120
 Db 10462 GGCATATCCCACCTCCAGAGCCCTGGAGGATGGGACCCGGACCTCTGTG 14121

Qy 141.82 TTCTCTCTCAAAAGAAATACTCCCTCTGTGAACTGACCCAGAACAG 14241
 Db 10534 GCGAAAGATGAGGAGTCTGAGGAACTGAAATAGAGGGAAAGGAA 10593
 Qy 241 GCGAAAGATGAGGAGTCTGAGGAACTGAAATAGAGGGAAAGGAA 360
 Db 10594 GCGAAAGATGAGGAGTCTGAGGAACTGAAATAGAGGGAAAGGAA 10653

Qy 181 CAGAGTCAAGACTGGGAAAGAACAGGTTCTCTCCAGGGATGGGGTCCATCACCCT 240
 Db 10474 CAGAGTCAAGACTGGGAAAGAACAGGTTCTCTCCAGGGATGGGGTCCATCACCCT 10533
 Qy 241 GCGAAAGATGAGGAGTCTGAGGAACTGAAATAGAGGGAAAGGAA 300
 Db 10534 GCGAAAGATGAGGAGTCTGAGGAACTGAAATAGAGGGAAAGGAA 10713
 Qy 361 CGTATGGTGAAGAGTACTCTGCTCCCTAGGAAAGAGACTCAGGGAGGGAAAGGAA 420
 Db 10654 CGTATGGTGAAGAGTACTCTGCTCCCTAGGAAAGAGACTCAGGGAGGGAAAGGAA 14361

RESULT 15
US-09-033-555A-25GENERAL INFORMATION:
APPLICANT: Lamparski, Henry

Schaur, Eric

Henderson, Daniel

TITLE OF INVENTION: ADENOVIRUS VECTORS SPECIFIC FOR CELLS

EXPRESSING CARCINOEMBRYONIC ANTIGENS AND METHODS OF USE

THEREOF

NUMBER OF SEQUENCES: 25

CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER

STREET: 755 PAGE MILL ROAD

CITY: PALO ALTO

STATE: CA

COUNTRY: USA

ZIP: 94304-1018

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/033,555A

FILING DATE: 02-Mar-1998

CLASSIFICATION: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: POLIZZI, CATHERINE M.

REGISTRATION NUMBER: 40,130

REFERENCE/DOCKET NUMBER: 34802-30005.00

TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 813-5600;

TELEFAX: (415) 494-0792

TELEX: 706141 MRSNPOERS SFO

INFORMATION FOR SEQ ID NO: 25:

SEQUENCE CHARACTERISTICS:

LENGTH: 15056 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 25:

US-09-033-555A-25

Query Match 99.8%; Score 471; DB 15; Length 15056;

Best Local Similarity 100.0%; Pred. No. 1.6e-113; Mismatches 0; Indels 0; Gaps 0;

Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query Match 99.8%; Score 471; DB 15; Length 15056;

Best Local Similarity 100.0%; Pred. No. 1.6e-113; Mismatches 0; Indels 0; Gaps 0;

Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query Match 99.8%; Score 471; DB 15; Length 15056;

Best Local Similarity 100.0%; Pred. No. 1.6e-113; Mismatches 0; Indels 0; Gaps 0;

Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query Match 99.8%; Score 471; DB 15; Length 15056;

Best Local Similarity 100.0%; Pred. No. 1.6e-113; Mismatches 0; Indels 0; Gaps 0;

Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query Match 99.8%; Score 471; DB 15; Length 15056;

Best Local Similarity 100.0%; Pred. No. 1.6e-113; Mismatches 0; Indels 0; Gaps 0;

Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query Match 99.8%; Score 471; DB 15; Length 15056;

Best Local Similarity 100.0%; Pred. No. 1.6e-113; Mismatches 0; Indels 0; Gaps 0;

Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query Match 99.8%; Score 471; DB 15; Length 15056;

Best Local Similarity 100.0%; Pred. No. 1.6e-113; Mismatches 0; Indels 0; Gaps 0;

Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	301	GGCAGAAATGAGAGGGAGGGACAGGACACCTGAAATAAGACCAACCCATGACCCA	360
Db	14362	GGCAGAAATGAGAGGGAGGGACAGGACACCTGAAATAAGACCAACCCATGACCCA	14421
Qy	361	CGTGATGCTGAAAGTACTCTCTGCCCTAGGAAGAGACTCAGGGCAGGGAGGAGGACA	420
Db	14422	CGTGATGCTGAAAGTACTCTCTGCCCTAGGAAGAGACTCAGGGCAGGGAGGAGGACA	14481
Qy	421	GGAGACCAAGACAGTCAAGACAGCTTGAACAACGTTCTGAACTCAAGC	471
Db	14482	GGAGACCAAGACAGTCAAGACAGCTTGAACAACGTTCTGAACTCAAGC	14532

Search completed: December 11, 2004, 09:53:13
Job time : 3799 secs

Result No.	Score	Query Match	Length	DB ID	Description
1	263.2	55.8	15862	6 US-10-737-082-14	Sequence 14, Appl
2	103.2	21.9	2210	6 US-10-737-082-68	Sequence 68, Appl
3	75	15.9	2799	6 US-10-912-745A-3360	Sequence 360, Appl
4	75	15.9	2799	8 US-0-625-561-294	Sequence 294, Appl
5	75	15.9	2799	8 US-0-625-562-301	Sequence 301, Appl
6	75	15.9	2974	6 US-10-482-029-240	Sequence 240, Appl
7	75	15.9	2974	8 US-0-625-561-293	Sequence 293, Appl
8	75	15.9	2974	8 US-0-625-562-300	Sequence 300, Appl
9	75	15.9	2976	6 US-10-912-745A-3361	Sequence 361, Appl
10	75	15.9	2976	8 US-0-625-561-292	Sequence 292, Appl
11	75	15.9	2976	8 US-0-625-562-299	Sequence 299, Appl
c 12	55.4	11.7	294	6 US-10-961-527-311	Sequence 311, Appl
c 13	43.2	9.2	366	6 US-10-948-737-3964	Sequence 3964, Appl
c 14	43.2	9.2	472	6 US-10-948-737-3813	Sequence 3813, Appl
c 15	39.4	8.3	54574	6 US-10-990-328-95976	Sequence 95976, Appl
c 16	38	8.1	299	6 US-10-220-366A-118010	Sequence 11800, Appl
c 17	37.6	8.0	312644	6 US-10-990-328-95981	Sequence 95981, Appl
c 18	37.4	7.9	13277	6 US-10-990-328-96790	Sequence 96790, Appl
c 19	37.4	7.9	69757	6 US-10-990-328-94219	Sequence 94219, Appl
c 20	37.2	7.9	98532	6 US-10-990-328-95593	Sequence 95593, Appl
c 21	37	7.8	4332	6 US-10-220-366A-12731	Sequence 12791, Appl
c 22	37	7.8	574	6 US-10-863-332-33	Sequence 33, Appl
c 23	36.6	7.8	206746	6 US-10-990-328-97314	Sequence 97314, Appl
c 24	36.2	7.7	1285	6 US-10-220-366A-6728	Sequence 6728, Appl
c 25	36.2	7.7	9535	6 US-10-912-745A-3378	Sequence 371, Appl

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; Sequence 301, Application US/60625562
; GENERAL INFORMATION:
; APPLICANT: MCCAFFREY, Ian
; TITLE OF INVENTION: COLON DISEASE TARGETS AND USES THEREOF
; FILE REFERENCE: CL001555
; CURRENT APPLICATION NUMBER: US/60/625,562
; CURRENT FILING DATE: 2004-11-08
; NUMBER OF SEQ ID NOS: 535
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 301
; LENGTH: 2799
; TYPE: DNA
; ORGANISM: Homo sapiens
US-60-625-562-301

Query Match 15.9%; Score 75; DB 8; Length 2794;
Best Local Similarity 100.0%; Pred. No. 4.5e-11;
Matches 75; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
RESULT 8
US-60-625-562-300
; Sequence 300, Application US/60625562
; GENERAL INFORMATION:
; APPLICANT: MCCAFFREY, Ian
; TITLE OF INVENTION: COLON DISEASE TARGETS AND USES THEREOF
; FILE REFERENCE: CL001555
; CURRENT APPLICATION NUMBER: US/60/625,562
; CURRENT FILING DATE: 2004-11-08
; NUMBER OF SEQ ID NOS: 535
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 300
; LENGTH: 974
; ORGANISM: Homo sapiens
US-60-625-562-300

Query Match 15.9%; Score 75; DB 8; Length 2794;
Best Local Similarity 100.0%; Pred. No. 4.5e-11;
Matches 75; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
RESULT 9
US-10-482-029-240
; Sequence 240, Application US/10482029
; GENERAL INFORMATION:
; APPLICANT: ODIN medical A/S
; TITLE OF INVENTION: Oncology drug innovation
; FILE REFERENCE: P 5/3 PC00
; CURRENT APPLICATION NUMBER: US/10/482,029
; CURRENT FILING DATE: 2003-12-29
; NUMBER OF SEQ ID NOS: 437
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 240
; LENGTH: 2974
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-482-029-240

Query Match 15.9%; Score 75; DB 6; Length 2974;
Best Local Similarity 100.0%; Pred. No. 4.5e-11;
Matches 75; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
RESULT 7
US-60-625-561-293
; Sequence 293, Application US/60625561
; GENERAL INFORMATION:
; APPLICANT: MCCAFFREY, Ian
; TITLE OF INVENTION: PANCREATIC CANCER TARGETS AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CL001557
; CURRENT APPLICATION NUMBER: US/60/625,561
; CURRENT FILING DATE: 2004-11-08
; NUMBER OF SEQ ID NOS: 586
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 293

```

Db 1 CTCAGGGAGGGAGGAGCACCACTCAAGCAGACAGTACAGCAGCTTGACAAAGT 60
 Qy 457 TCCCTGGAACCTCAAGC 471
 Db 61 TCCCTGGAACCTCAAGC 75

RESULT 10
 US-60-625-561-292
 ; Sequence 292, Application US/606255561
 ; GENERAL INFORMATION;
 ; APPLICANT: MCCAFFREY, Ian
 ; APPLICANT: DOMON, Bruno
 ; TITLE OF INVENTION: PANCREATIC CANCER TARGETS AND USES
 ; FILE REFERENCE: CL001557
 ; CURRENT APPLICATION NUMBER: US/60/625,561
 ; CURRENT FILING DATE: 2004-11-08
 ; NUMBER OF SEQ ID NOS: 586
 ; SOFTWARE: FastSEQ For Windows Version 4.0
 ; SEQ ID NO: 292
 ; LENGTH: 2976
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-60-625-561-292

Query Match 15.9%; Score 75; DB 8; Length 2976;
 Best Local Similarity 100.0%; Pred. No. 4.5e-11;
 Matches 75; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 397 CTCAGGGAGGGAGGAGCACCACTCACAGCAGACACTACAGCAGCTTGACAAAGT 456
 Db 1 CTCAGGGAGGGAGGAGCACCACTCACAGCAGACAGTACAGCAGCTTGACAAAGT 60

Qy 457 TCCCTGGAACCTCAAGC 471
 Db 61 TCCCTGGAACCTCAAGC 75

Query Match 15.9%; Score 75; DB 8; Length 2976;
 Best Local Similarity 100.0%; Pred. No. 4.5e-11;
 Matches 75; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 397 CTCAGGGAGGGAGGAGCACCACTCACAGCAGACACTACAGCAGCTTGACAAAGT 456
 Db 1 CTCAGGGAGGGAGGAGCACCACTCACAGCAGACAGTACAGCAGCTTGACAAAGT 60

Query Match 15.9%; Score 75; DB 8; Length 2976;
 Best Local Similarity 100.0%; Pred. No. 4.5e-11;
 Matches 75; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 397 CTCAGGGAGGGAGGAGCACCACTCACAGCAGACACTACAGCAGCTTGACAAAGT 456
 Db 1 CTCAGGGAGGGAGGAGCACCACTCACAGCAGACAGTACAGCAGCTTGACAAAGT 60

RESULT 11
 US-60-625-562-299
 ; Sequence 299, Application US/60625562
 ; GENERAL INFORMATION;
 ; APPLICANT: MCCAFFREY, Ian
 ; APPLICANT: DOMON, Bruno
 ; TITLE OF INVENTION: COLON DISEASE TARGETS AND USES THEREOF
 ; FILE REFERENCE: CL001555
 ; CURRENT APPLICATION NUMBER: US/60/625,562
 ; CURRENT FILING DATE: 2004-11-08
 ; NUMBER OF SEQ ID NOS: 535
 ; SOFTWARE: FastSEQ For Windows Version 4.0
 ; SEQ ID NO: 299
 ; LENGTH: 2976
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-60-625-562-299

Query Match 15.9%; Score 75; DB 8; Length 2976;
 Best Local Similarity 100.0%; Pred. No. 4.5e-11;
 Matches 75; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 397 CTCAGGGAGGGAGGAGCACCACTCACAGCAGACACTACAGCAGCTTGACAAAGT 456
 Db 1 CTCAGGGAGGGAGGAGCACCACTCACAGCAGACAGTACAGCAGCTTGACAAAGT 60

Qy 457 TCCCTGGAACCTCAAGC 471
 Db 61 TCCCTGGAACCTCAAGC 75

RESULT 12
 US-10-961-527-311/c

Sequence 311, Application US/10961527
 ; GENERAL INFORMATION:
 ; APPLICANT: King, Gordon E.
 ; APPLICANT: Meagher, Madeleine Joy
 ; APPLICANT: Xu, Jingchun
 ; APPLICANT: Sechrist, Heather
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
 ; TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
 ; FILE REFERENCE: 210121-547C4
 ; CURRENT APPLICATION NUMBER: US/10/961,527
 ; CURRENT FILING DATE: 2004-10-07
 ; PRIOR APPLICATION NUMBER: US 09/920,300
 ; PRIOR FILING DATE: 2001-07-31
 ; PRIOR APPLICATION NUMBER: US 60/302,051
 ; PRIOR FILING DATE: 2001-06-19
 ; PRIOR APPLICATION NUMBER: US 60/279,763
 ; PRIOR FILING DATE: 2001-03-28
 ; PRIOR APPLICATION NUMBER: US 60/223,283
 ; PRIOR FILING DATE: 2000-08-03
 ; NUMBER OF SEQ ID NOS: 1789
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO: 311
 ; LENGTH: 294
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-10-961-527-311

Query Match 11.7%; Score 55.4; DB 6; Length 294;
 Best Local Similarity 98.2%; Pred. No. 6.5e-06;
 Matches 56; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 Qy 415 AGGACAGCAGACCCAGACAGTACAGCAGCTTGACAAACGTTCTGGAACTCAAGC 471
 Db 293 ACGACAGCAGACCCAGACAGTACAGCAGCTTGACAAACGTTCTGGAACTCAAGC 237

RESULT 13
 US-10-948-737-3964
 ; Sequence 3964, Application US/10948737
 ; GENERAL INFORMATION:
 ; APPLICANT: CHAN, VIVIEN W.
 ; APPLICANT: ESCOBEDO, JAIME
 ; APPLICANT: GARCIA, PABLO DOMINGUEZ
 ; APPLICANT: HANSEN, RHONDA
 ; APPLICANT: KAUFMANN, JOERG
 ; APPLICANT: KENNEDY, JULIA C.
 ; APPLICANT: LAMSON, GEORGE
 ; APPLICANT: MOLER, EDWARD J.
 ; APPLICANT: RANDAZZO, FILIPPO
 ; APPLICANT: REINHARD, CHRISTOPH
 ; APPLICANT: SUDHUTH-KLINGER, JULIE
 ; TITLE OF INVENTION: GENE PRODUCTS DIFFERENTIALLY EXPRESSED
 ; TITLE OF INVENTION: IN CANCEROUS CELLS III
 ; FILE REFERENCE: 2300-21987
 ; CURRENT APPLICATION NUMBER: US/10/948,737
 ; CURRENT FILING DATE: 2004-09-22
 ; PRIOR APPLICATION NUMBER: 10/616,900
 ; PRIOR FILING DATE: 2003-07-09
 ; PRIOR APPLICATION NUMBER: 09/872,850
 ; PRIOR FILING DATE: 2001-06-01
 ; PRIOR APPLICATION NUMBER: 60/208,871
 ; PRIOR FILING DATE: 2000-06-02
 ; PRIOR APPLICATION NUMBER: 10/081,519
 ; PRIOR FILING DATE: 2002-02-21
 ; PRIOR APPLICATION NUMBER: 60/270,959
 ; PRIOR APPLICATION NUMBER: 10/310,673
 ; PRIOR FILING DATE: 2003-01-08
 ; PRIOR APPLICATION NUMBER: 60/336,613
 ; PRIOR FILING DATE: 2001-12-04
 ; PRIOR APPLICATION NUMBER: US03/00657
 ; PRIOR FILING DATE: 2003-01-08
 ; PRIOR APPLICATION NUMBER: 60/345,637

i PRIORITY FILING DATE: 2002-01-08
 i PRIORITY APPLICATION NUMBER: 10/081,124
 i PRIORITY FILING DATE: 2002-02-21
 i Remaining Prior Application data removed - See File Wrapper or PALM.
 i NUMBER OF SEQ ID NOS: 1396
 i SOFTWARE: Fast-SEQ for Windows Version 4.0
 i SEQ ID NO: 3964
 i LENGTH: 366
 i TYPE: DNA
 i ORGANISM: Homo sapiens
 i US-10-948-737-3964

Query Match 9.2%; Score 43.2; DB 6; Length 472;
 Best Local Similarity 86.8%; Pred. No. 0.02;
 Matches: 59; Conservative 0; Mismatches: 8; Indels: 1; Gaps: 1;
 SEQ 405 AGGGGAAAGCAAGGAGACAGTCACAGCAGCTGACAAAC-GTTCCCTGGA 463
 Db 2 AGGGTAGAACAGGAGCTGACAGTCACAGCAGCTGACAAAGAGTTCCTGGA 61

Query Match 9.2%; Score 43.2; DB 6; Length 366;
 Best Local Similarity 86.8%; Pred. No. 0.018;
 Matches: 59; Conservative 0; Mismatches: 8; Indels: 1; Gaps: 1;
 SEQ 405 AGGGGAAAGCAAGGAGACAGTCACAGCAGCTGACAAAC-GTTCCCTGGA 463
 Db 2 AGGGTAGAACAGGAGCTGACAGTCACAGCAGCTGACAAAGAGTTCCTGGA 61

RESULT 14
 US-10-948-737-3813 Application US/10948737
 i GENERAL INFORMATION:
 i APPLICANT: CHAN, VVIEN W.
 i APPLICANT: ESCOBEDO, JAIME
 i APPLICANT: GARCIA, PABLO DOMINGUEZ
 i APPLICANT: HANSEN, RHONDA
 i APPLICANT: KAUFMAN, JOERG
 i APPLICANT: KENNEDY, GIULIA C.
 i APPLICANT: LAMSON, GEORGE
 i APPLICANT: MOLER, EDWARD J.
 i APPLICANT: RANDAZZO, FILIPPO
 i APPLICANT: REINHARD, CHRISTOPH
 i APPLICANT: SUDDUTH KLINGER, JULIE
 i TITLE OF INVENTION: GENE PRODUCTS DIFFERENTIALLY EXPRESSED
 i TITLE OF INVENTION: GENE PRODUCTS DIFFERENTIALLY EXPRESSED
 i FILE REFERENCE: 2300-21987
 i CURRENT APPLICATION NUMBER: US/10/948,737
 i CURRENT FILING DATE: 2004-09-22
 i PRIORITY APPLICATION NUMBER: 10/616,900
 i PRIORITY FILING DATE: 2003-07-09
 i PRIORITY APPLICATION NUMBER: 09/872,850
 i PRIORITY FILING DATE: 2001-06-01
 i PRIORITY APPLICATION NUMBER: 60/208,871
 i PRIORITY FILING DATE: 2000-06-02
 i PRIORITY APPLICATION NUMBER: 10/081,519
 i PRIORITY FILING DATE: 2002-02-21
 i PRIORITY APPLICATION NUMBER: 60/270,959
 i PRIORITY FILING DATE: 2003-01-08
 i PRIORITY APPLICATION NUMBER: 60/336,613
 i PRIORITY FILING DATE: 2001-12-04
 i PRIORITY APPLICATION NUMBER: US/03/00657
 i PRIORITY FILING DATE: 2003-01-08
 i PRIORITY APPLICATION NUMBER: 60/345,637
 i PRIORITY FILING DATE: 2002-01-08
 i PRIORITY APPLICATION NUMBER: 10/081,124
 i PRIORITY FILING DATE: 2002-02-21
 i Remaining Prior Application data removed - See File Wrapper or PALM.
 i NUMBER OF SEQ ID NOS: 1396
 i SOFTWARE: Fast-SEQ for Windows Version 4.0
 i SEQ ID NO: 3813
 i LENGTH: 472
 i TYPE: DNA
 i ORGANISM: Homo sapiens
 i US-10-948-737-3813

Query Match 9.2%; Score 43.2; DB 6; Length 472;
 Best Local Similarity 86.8%; Pred. No. 0.02;
 Matches: 59; Conservative 0; Mismatches: 8; Indels: 1; Gaps: 1;
 SEQ 405 AGGGGAAAGCAAGGAGACAGTCACAGCAGCTGACAAAC-GTTCCCTGGA 463
 Db 1 AGGGTAGAACAGGAGCTGACAGTCACAGCAGCTGACAAAGAGTTCCTGGA 60

Query Match 9.2%; Score 43.2; DB 6; Length 366;
 Best Local Similarity 86.8%; Pred. No. 0.018;
 Matches: 59; Conservative 0; Mismatches: 8; Indels: 1; Gaps: 1;
 SEQ 405 AGGGGAAAGCAAGGAGACAGTCACAGCAGCTGACAAAC-GTTCCCTGGA 463
 Db 1 AGGGTAGAACAGGAGCTGACAGTCACAGCAGCTGACAAAGAGTTCCTGGA 60

RESULT 15
 US-10-990-328-95976/C
 i Sequence 95976, Application US/1090328
 i GENERAL INFORMATION:
 i APPLICANT: CARGILL, Michele
 i TITLE OF INVENTION: POLYMORPHISMS IN NUCLEIC ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, METHODS OF DETECTION AND
 i TITLE OF INVENTION: USES THEREOF
 i FILE REFERENCE: CL001435
 i CURRENT APPLICATION NUMBER: US/10/990,328
 i CURRENT FILING DATE: 2004-11-17
 i NUMBER OF SEQ ID NOS: 558824
 i SOFTWARE: Fast-SEQ for Windows Version 4.0
 i SEQ ID NO: 95976
 i LENGTH: 54574
 i TYPE: DNA
 i ORGANISM: Homo sapiens
 i US-10-990-328-95976

Query Match 8.3%; Score 39.4; DB 6; Length 54574;
 Best Local Similarity 51.6%; Pred. No. 1.2;
 Matches: 114; Conservative 106; Mismatches: 106; Indels: 1; Gaps: 1;
 SEQ 124 CTCCTGTCACAAAGGAAATAATCCCTGCTGACGACCCAGGGACAAACAGCG 183
 Db 8846 CTCGACCCACGGAAATGGTGGAAAACCCCTTGTAGCCATGTCTAAAGCA-AAAAACAGTC 8788
 Query 184 AGTCAGCACTGGGAGACAGTGTGCTCCAGGGATGGGTCCATCCACCTGTC 243
 Db 8787 AAGTGTGTTCAAGGAAGCTCTACCTTCAGGGAGGGAGAGGGAAAGGG 8728

Query 244 GAAAGATTTGCTGAGCAACTGAAATAGAGGGAAAAAGAGGGACAAAGAGGC 303
 Db 8727 GGATGGGGGGTGGGGAGGAAGTGGGAAGAGGGAAAGAGGGAAAGGG 8668

Query 304 AGATAGAGGGGGAGGGGAGGGACCTGATAAGA 344
 Db 8667 AGGGAGGGAGGGAGGGAGGGAAAGGGAAAGGGATAAGA 8627

Search completed: December 11, 2004, 09:55:58
Job time : 160 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 11, 2004, 06:27:49 ; Search time 2957 Seconds

Perfect score: 472 (without alignments)
Sequence: 1 AGCCACCAACCGTAGGCCT.....ACCTTCCTGGAACTCAAGCA 472

Title: US-10-045-116-1

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 32822875 seqs, 18219865908 residues

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length: 20000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : EST,*

1: gb_est1:*

2: gb_est2:*

3: gb_htc:*

4: gb_est3:*

5: gb_est4:*

6: gb_est5:*

7: gb_est6:*

8: gb_gb81:*

9: gb_gb82:*

Result No. Score Query Match Length DB ID Description

AW449279 UI-H-B13-akh-e-09-0-U1-s1 NCI CGAP_Subs mRNA linear EST 17-FEB-2000

IMAGE:2734193 3 , mRNA sequence.

CD618558 CD618559 CD618550 CD618551

CD618546 CD618547 CD618548

CD618552 CD618553 CD618554

AA132598 AA132599 AA132599

CD618563 CD618564 CD618565

CD618566 CD618567 CD618568

CD618569 CD618570 CD618571

CD618572 CD618573 CD618574

CD618575 CD618576 CD618577

CD618578 CD618579 CD618580

CD618582 CD618583 CD618584

CD618585 CD618586 CD618587

CD618588 CD618589 CD618590

CD618591 CD618592 CD618593

CD618594 CD618595 CD618596

CD618597 CD618598 CD618599

CD618599 CD618600 CD618601

CD618602 CD618603 CD618604

CD618605 CD618606 CD618607

CD618608 CD618609 CD618610

CD618611 CD618612 CD618613

CD618614 CD618615 CD618616

CD618617 CD618618 CD618619

CD618620 CD618621 CD618622

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CD618629 CD618630 CD618631

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CD618922 CD618923 CD618924

CD618926 CD618927 CD618928

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CD619066 CD619067 CD619068

CD619069 CD619070 CD619071

CD619072 CD619073 CD619074

1492104-1493255 ; NCI_CGAP_BU5 pool 1 LLAM 3575-3582,
 NCI_CGAP_33854 (IMAGE CloneIDS 14141920-1417991, 150904-1522439) ; NCI_CGAP_GC4 pool 1 LLAM
 3164-31657, 3716-3740, 3733-3735 (IMAGE CloneIDS 1257096-1258613, 1463064-1470883, 147592-1476743) ;
 NCI_CGAP_Pr22 pool 1 LLAM 2457-2569, 2758-2759, 3062-3068
 (IMAGE Cloning 989608-986750, 1101192-1101959,
 1211928-1220615) ; NCI_CGAP_Co10 pool 1 LLAM 2644-2653,
 2871-2872 (IMAGE CloneIDS 1057416-1061255, 1144584-1145351) . (10% of the driver
 population) , plus a pool of 3,840 arrayed clones from
 NCI_CGAP_Sub1 (IMAGE CloneIDS 2708616-2710353) and
 NCI_CGAP_Sub2 (IMAGE CloneIDS 2710356-2712455) (10% of
 the driver population) , plus a pool of 11,116 clones from
 NCI_CGAP_Sub3 (IMAGE CloneIDS 2712456-2723591) (10% of the
 driver population) , plus a pool of 5,472 clones from
 NCI_CGAP_Sub4 (IMAGE CloneIDS 2723592-2728569) (70% of the
 driver population) . Subtraction was performed as
 previously described [Bonaldo, Lennon & Soares (1996) :
 Normalization and Subtraction: Two Approaches To
 Facilitate Gene Discovery. Genome Research 6, 791-806.
 TAG TISSUE=colon
 TAG LIBRARY=NCI_CGAP_Co10
 TAG SEQ=AACTG"

ORIGIN	Query Match	Score	DB 2;	Length	328;
Y	Best Local Similarity	18.6%;	DB 2;		
Y	Conservative	65.5%;	Pred. No.	6.5e-13;	
Y	Matches	154;	Missmatches	0;	
Y			Indels	62;	Gaps 1;
Y					
Y	1	AGCCACCCAGTAGCCCTTTCTAGCCCCAGGCACTCTGTCACTTCTCTGTC			60
Y	35	AGTCATCCCCAGTAGGCCCTTCTATCCCCAGGCACTCTGTCACTTCTCTGTC			94
Y	61	GGCATCATCCCCACCTTCCCCAGAGCCCTGGAGAGCATGGGAGACGGGACCC			120
Y	95	GGTGTCTTCCTACCTTCCCCAGCACCTGAGAGCTGGGAGACCTGGAGCTACTGTC			154
Y	121	TTTCTCTGTCAAAAGGAAATAATCCCTCTGG-----			
Y	155	TTGCAAGAAAATATTACCAATTTGGATATGCCAGGGTTCTCTGTCGTCAGCAG			214
Y	162	ACCCAGGACAGAAACAGAGGAGTCAGACTGGGAAGACAGCTTGTCTCC			216
Y	215	ACCCATAGCCCGAGACAAATAGGGTCAGTGTCAAGGGGGCTCTCC			269

RESULT 2
05/07/2004
GSS 02-JUN-2004
AC307251 Mus musculus molossinus linear
DEFINITION Mus musculus molossinus DNA, clone: NSMG01-088106.TU, genomic survey sequence.
ACCESSION AG307251
VERSION AG307251.1 GI:47880205
KEYWORDS GSS.
SOURCE Mus musculus molossinus
ORGANISM Mus musculus molossinus
MATERIAL Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE

<p>Tsukuba Institute, Bio Resource Center, The Institute of Physical and Chemical Research (RIKEN) 3-1-1 Koyada, Tsukuba, 305-0074 Japan phone: 81-298-36-9189, fax: 81-298-36-9199 e-mail: abe@rtc.riken.jp PRIMERS</p>	<p>Sequencing : TJ</p>
<p>LIBRARY</p>	<p>: pBACE3.6</p>
<p>Vector</p>	<p>: ECORI</p>
<p>R.Site 1</p>	<p>: ECORI</p>
<p>R.Site 2</p>	<p>: ECORI</p>
<p>FEATURES</p>	<p>Location/Qualifiers</p>
<p>Source</p>	<p>1. .701</p>
	<p>/organism="Mus musculus molossinus"</p>
	<p>/mol_type="genomic DNA"</p>
	<p>/sub_species="molossinus"</p>
	<p>/db_xref="itaxon:57486"</p>
	<p>/clio="MSMG01-088106.TU"</p>
	<p>/sex="male"</p>
	<p>/tissue_type="mixture of kidney and spleen"</p>
	<p>/clone_id="MSMG01 Mouse BAC Library"</p>
<p>ORIGIN</p>	

Query	Match	Score	DB	9;	Length	701;
Best Local Matches	16.64;	Score 78.4;	DB 9;	Length 701;		
Local Similarity	56.44;	Pred. No. 2.	9e-10;			
Conservative	0;	Mismatches	161;	Indels	24;	Gaps
Matches	239;					
Qy	23	TTCTAGCCCCCAAGGCCAACCTCTGTCACTTCTGTGGCATATCCCAACCTTCCAGA	8			
Db	173	TCCTCAAACTTCACTGGCACCTCTGTCACTTCTGTGGAA-	-ATCCGCACCTTCCAGA	2		
Qy	83	GCCCTGGAGAGCATGGGAGACCCGGGAGACCGGGAGACCTGGTCAAGAGAAAT	1			
Db	231	GTACTGAGACAGGGAGACTAGGAGTCATCTGGCTCATGTGTCAGGGCACAT	2			
Qy	143	AATCCCTGGTG-----TGACAGACCCAGGAGAGACACAGCAGAGG	1			
Db	291	ACGAAAGATAGACGTTCCTCTTGATGCTGAAGACTCATGTCAGGAGTCAGCGATA	3			
Qy	187	TCAAGCTGGGAGACGGTTCTCTCCAGGGATGGGGTCCATCCACCTTGGCAA	2			
Db	351	TCAAGCTGGATCATGTTCTCTGGATGAAATAGAGGGCATTTGCTGATTTATCAGCTGTTGTC	4			
Qy	247	AAGATTTCTGGAGAACTGAAATAGAGGGAAAAAGGGAGGACACAAAGGCCAGA	3			
Db	411	TCAAGGTTTGTGGAGAGAACATATAAGGAGAAATTGGAAAGATGGGGCACGC	4			
Qy	307	ATATGAGGGGGAGGGAGAGGA-----CACCTGAATAAAAGGCCACACCCATGACCCAC	3			
Db	471	ACTGAGACTGGAGTGTGACTGGAGTGTGCTGAGCTCACAGCCACACACAGTCCT	5			
Qy	362	GTATGCTGAGAGTACTCTGGCTTAGAAGAGACTCAGGGAGGGGAAGGACAG	4			
Db	531	AGGATTCTGGGAGAGTGCCTCTG-CTTGAGAAAGAAACTCAGCTAGAAAGGAGACAG	5			
Qy	422	CAGA 425				
Db	590	CAGA 593				

RESULT	3
AZ553789	AZ553789
LOCUS	RPCI-23-177H11-TJ
DEFINITION	RPCI-23-177H11-TJ RPCI-23 Mus musculus genomic clone
RPCI-23-177H11, genomic survey sequence.	
ACCESSION	AZ553789
VERSION	AZ553789.1
KEYWORDS	GSS.
SOURCE	Mus musculus (house mouse)
ORGANISM	Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi	
Mammalia; Eutheria; Rodentia; Muridae; Murinae; Mu	
1 (bases 1 to 522)	REFERENCE

AUTHORS	Zhao,S., Nierman,W., Feldblyum,T., Malek,J., Shatsman,S., Akninet,B., Levins,M., McGann,S., Tsengaye,G., Gear,K., Krolik,M., de Jong,P. and Fraser,C.M.	Qy	422 CAGA 425
JOURNAL	Mouse BAC End Sequences from Library RPCI-23	Db	509 CAGA 512
COMMENT	Other GSSs: RPCI-23-177H11.TV Contact: Shaying Zhao Department of Eukaryotic Genomics The Institute for Genomic Research 9712 Medical Center Dr., Rockville, MD 20850, USA Tel: 301 838 0200 Fax: 301 838 0208 Email: szhao@tigr.org	RESULT 4 AZ377232 LOCUS 1M0131P23F Mouse 10kb plasmid UGCC1M library Mus musculus genomic DEFINITION clone UGCC1M0131P23 F, genomic survey sequence. ACCESSION AZ377232.1 VERSION GSS KEYWORDS Mus musculus (house mouse) ORGANISM Mus musculus Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Buterida; Rodentia; sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 588) REFERENCE Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenan,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D., Weiss,R. Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts Unpublished (2000) TITLE	
FEATURES	Clones are derived from the mouse BAC library RPCI-23. For BAC library availability, please contact Pieter de Jong (pieter@dej Jong.med.buffalo.edu). Clones may be purchased from BACPAC Resources (http://bacpac.med.buffalo.edu/orderingframe.htm) or from Research Genetics (info@research.com). BAC end page: http://www.tigr.org/tigrdb/bac/ends/mouse/bac_end_intro.html . Seq Primer: SP6 Class: BAC ends Source 1. .522 /organism="Mus musculus" /mol_type="genomic DNA" /strain="C57BL/6J" /db_xref="Taxon:10090" /clone="RPCI-23-177H11" /sex="Female" /lab_host="DH10B" /clone_lib="RPCI-23" /note="Organ: Kidney/Brain; Vector: pBACE3.6; Site: 1: EcorI; Site 2: EcorI. Female C57BL/6J mouse kidney and/or brain genomic DNA was isolated and partially digested with a combination of EcoRI and EcoRI Methylase. Size selected DNA was cloned into the pBACE3.6 vector at the EcoRI sites. The ligation products were transformed into DH10B electrocompetent cells (BRL Life Technologies)." Location/Qualifiers	JOURNAL COMMENT CONTACT: Robert B. Weiss University of Utah Genome Center Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA Tel: 801 585 5606 Fax: 801 55 7177 Email: dawnn@genetics.utah.edu Insert length: 10000 Std. Error: 0.00 Place: 0131 row: P column: 23 Seq primer: CCGTAAACCCAGGCAGT Class: Plasmid ends High quality sequence stop: 588. Location/Qualifiers 1. .588 /organism="Mus musculus" /mol_type="genomic DNA" /strain="C57BL/6J" /db_xref="Taxon:10090" /clone="UGCC1M0131P23" /sex="Male" /lab_host="E. Coli strain XL10-Gold, R1-resistant, F-" /clone.lib="Mouse 10kb plasmid UGCC1M library" /note="Vector: PWD02nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnases/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA Polymerase and T4 Polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (gi 4732114 gb AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."	
ORIGIN	Query Match 15.9%; Score 75.2; DB 8; Length 522; Best Local Similarity 55.9%; Pred. No. 2e-09; Matches 237; Conservative 0; Mismatches 163; Indels 24; Gaps 4;	Query Match 15.0%; Score 71; DB 8; Length 588; Best Local Similarity 55.2%; Pred. No. 2.9e-08; Matches 234; Conservative 0; Mismatches 166; Indels 24; Gaps 4;	
Qy	23 TTCTGCCCCAGGAGATGGGAGACCGGGACCTCTGTTGCGATCATCCACCTTCCCGA 82 92 TTCCAAATCTTCACTGGCCCTGTCACTTCTGTRGGAA-ATTCACCTTCCCGA 149	Db	2070 TCAAGCTGGTCTGAGAACTGAAATATAGAGGGAAAAGAGGAGGGAAAGAGGAGA 329
Qy	83 GCCCTGGAGCATGGGAGACCGGGACCCCTGCTGGTTCTCTGAGACAAAGGAAAT 142	Db	150 GTACTGAACACAGGGCTGTTGTGATCTCATCTGGTCTCATCTGGTCTCAT 209
Qy	143 AATCCCTGGTG-----TGAGAGACCAAGGAGACAGAGAGG 186	Db	210 AGAAAAGTAGAGGTCTCCCTTGTGATCTGAGACTCATGTCCAGAGTCAGCAGATA 269
Qy	187 TCAGGACTCTGGAGAACAGGTCTCCCTCCAGGGATGGGCTCATCACCTTGGCGAA 246	Db	247 AAGATTTGCTGAGAACATGAGGGAAAATAGAGGGAAATGTGGAAAGATTGGGGAGC 306
Qy	247 AAGATTTGCTGAGAACATGAGGGAAAATAGAGGGAAATGTGGAAAGATTGGGGAGC 306	Db	330 TCAAGGTTGCTGGAGAACTACTCTGGCTAGGAGAACTGGCTAGGAGAGGAGC 389
Qy	307 AATGAGAGGGAGAGAGAGA-----CACCTGATAAAAGACACCCATGACCCAC 361	Db	390 ACTGAGATGGAAAGTGAATGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAG 449
Qy	362 GTGATGCTGAGAACTACTCTGGCTAGGAGAACTGGCTAGGAGAGGAGC 421	Db	450 AGGATTCTGGAGTGTGCTCTG-CCTGAGAAACTAGCTGAGAAAGGAGAG 508

23	TTCAGCCCCAGGCCCTCTGTCACCTCTGTGGCATCATCCACCTTCCAGA	82	Db	21	GGCGAGGGAGGGAGGAGACAGAGACAGACAGACAGCTCACAGCCTTGACAAAAGCTTCCT
98	TTCAACTGTCAAGATCCTGTCTCTGAA-TAGGA-AGTCACCTTCCAGA	155	Qy	461	GGAACTCAAGC 471
83	GCCCTGGAGGAGCATGGGAGACCCGGACCTGCTGGTTCTCTGTCACAGGAAAT	142	Db	81	GGAACTCAAGC 91
156	GETCTGAGGACAAGTGGAGACTGGACCTCACTGTCACAGGACAGCT	215	RESULT 6		
143	AATCCCTCTGGT-----TCAAGCCAAAGACAGAACAGACAGG	186	LOCUS	CD708401	177 bp mRNA linear Homo sapiens cDNA, mRNA sequence.
216	AGGAATGATGAGGCTCCCTCTGTGCTGACAGACTCATATCTGGAGTCAGCATG	275	DEFINITION	EST24928	human nasopharynx Homo sapiens
187	TCAGCACTGGGAGAGAGGGTTCCTCCAGGGATGGGTCATCACCTTGCGAA	246	ACCESSION	EST	EST
276	TGAGCCCTTGATGAGTGTGTTCTGAGCTATGCCATGCTTGTGTC	335	VERSION	CD708401.1	GI:322239031
Qy	247 AAGATTGTCCTGAGAACATAAGAGGGAAAGAGGGCAAAAGAGGCTAGA	306	KEYWORDS	EST	
Db	336 TCAAGGTTGTTGGAGAATCATAAAGAGAAATGAGATGATGAGC	395	ORGANISM	Homo sapiens (human)	
Qy	307 AATGAGGGGGGGGGGGAGGACACTGTAATAAGAGAAATGAGATGAGC	361	REFERENCE	1	(bases 1 to 177)
Db	396 ACTGAGGTGGAGTGAATCTGAGCTTCTGAGTCTATGGACAGCCAT	455	AUTHORS	Liu,X.-Q., Zhou,Y., Zhang,L.-J., Xu,H., Chen,H.-K., Pan,Z.-G. and Zeng,Y.-X.	
Qy	362 GTGATGCTGAGAGTACTCTGCCTAGGAAGAGACTCAGGGCAGGGAGGACAG	421	TITLE	Transcriptional Gene Expression Profile of Human Nasopharynx	
Db	456 AGGATCTGGAGAAGTGTCTG-CCTGAGAACACTCGGTCAAAAGGAAGGACAG	514	JOURNAL	Unpublished (2003)	
Qy	422 CAGA 425		COMMENT	Contact: Yixin Zeng	
Db	515 TAGA 518			Cancer Center	
			FEATURES	Sun Yat-sen University	
			source	651 DongFeng Road East, Guangzhou 510060, China	
				Tel: 86-20-8775-4506	
				Fax: 86-20-8775-4506	
				Email: yxzeng@zjsums.edu.cn.	
				1..177	
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				Best Local Similarity	97.3%
				Matches	9.4..5e-08
				0; Mismatches	2; Indels 0; Gaps 0;
				REFERENCE	1
				AUTHORS	Liu,X.-Q., Zhou,Y., Zhang,L.-J., Xu,H., Chen,H.-K., Pan,Z.-G. and Zeng,Y.-X.
				TITLE	Transcriptional Gene Expression Profile of Human Nasopharynx
				JOURNAL	Unpublished (2003)
				COMMENT	Contact: Yixin Zeng
				SUN YAT-SEN UNIVERSITY	
				651 DONGFENG ROAD EAST, GUANGZHOU 510060, CHINA	
				TEL: 86-20-8775-4506	
				FAX: 86-20-8775-4506	
				EMAIL: yxzeng@zjsums.edu.cn.	
				1..594	
				/organism="Homo sapiens"	
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				/tissue_type="normal nasopharynx"	
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				Query Match	15.0%
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				Matches	2.9e-08
				0; Mismatches	0; Indels 0; Gaps 0;
				REFERENCE	1
				AUTHORS	Liu,X.-Q., Zhou,Y., Zhang,L.-J., Xu,H., Chen,H.-K., Pan,Z.-G. and Zeng,Y.-X.
				TITLE	Transcriptional Gene Expression Profile of Human Nasopharynx
				JOURNAL	Unpublished (2003)
				COMMENT	Contact: Yixin Zeng

651 DongFeng Road East, Guangzhou 510060, China
 Tel: 86-1380-9770-743
 Fax: 86-20-8775-4505
 Email: yxzeng@gsus.edu.cn.

FEATURES
SOURCE 1. .338
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="caxon.9606"
 /tissue_type="normal nasopharynx"
 /clone_lib="human nasopharynx"
 /note="ESTs generated from a normal nasopharynx cDNA library from southern Chinese"

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Query Match 14.8%; Score 69.8; DB 6; Length 338;
 Best Local Similarity 97.3%; Pred. No. 5.3e-08;
 Matches 71; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 399 CAGGGCAAGGGAGGAGGACAGAGACAGTCACAGGCCCTGACAAAACGTC 458
 Db 17 CCGGGAGGGAGGAGGAGGACAGAGACAGTCACAGGCCCTGACAAAACGTC 76

Qy 459 CTGGAACTCAGC 471
 Db 77 CTGGAACTCAGC 89

RESULT 8
LOCUS CD691155 555 bp mRNA, linear EST 25-JUN-2003
DEFINITION EST7678 human nasopharynx Homo sapiens cDNA, mRNA sequence.
ACCESSION CD691155.1 GI:3221598
VERSION EST.
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
 Mammalia; Butharia; Chordata; Craniata; Vertebrates; Euteleostomi;
 Mammalia; Butharia; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 555)
AUTHORS Liu,X.-Q., Zhou,Y., Zhang,L.-J., Xu,H., Chen,H.-K., Pan,Z.-G. and Zeng,Y.-X.
TITLE Transcriptional Gene Expression Profile of Human Nasopharynx
COMMENT Unpublished (2003)
 Contact: Yixin Zeng
 Cancer Center
 Sun Yat-sen University
 651 DongFeng Road East, Guangzhou 510060, China
 Tel: 86-1380-9770-743
 Fax: 86-20-8775-4506
 Email: yxzeng@gsus.edu.cn.

FEATURES
SOURCE 1. .555
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="caxon.9606"
 /tissue_type="normal nasopharynx"
 /clone_lib="human nasopharynx"
 /note="ESTs generated from a normal nasopharynx cDNA library from southern Chinese"

ORIGIN

Query Match 14.8%; Score 69.8; DB 6; Length 555;
 Best Local Similarity 97.3%; Pred. No. 6e-08;
 Matches 71; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 399 CAGGGCAAGGGAGGAGGACAGACAGTCACAGGCCCTGACAAAACGTC 458
 Db 17 CCGGGAGGGAGGAGGACAGACAGTCACAGGCCCTGACAAAACGTC 76

Qy 459 CTGGAACTCAGC 471
 Db 77 CTGGAACTCAGC 89

RESULT 9
LOCUS AL602851 595 bp mRNA, linear EST 04-SEP-2003
DEFINITION DKFZp686P1216_r1, 686 (synonym: hlcc3) Homo sapiens cDNA clone sequence.
ACCESSION AL602851
VERSION AL602851.1 GI:15166357
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
 Mammalia; Butharia; Chordata; Craniata; Vertebrates; Euteleostomi;
 Mammalia; Butharia; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 595)
AUTHORS Wambutt,R., Heubner,D., Mewes,W., Weil,B. and Wiemann,S.
TITLE EST (Wambutt,R., Heubner,D., Mewes,W., Weil,B. and Wiemann,S.)
JOURNAL Unpublished (1999)
COMMENT Contact: MIPS
ORGANIZATION Ingolstaedter Landstr.1, D-85764 Neuherberg, Germany
 This is the 5' sequence of the clone insert
 Clone from S. Wiemann, Molecular Genome Analysis, German Cancer Research Center (DKFZ); Email: s.wiemann@dkfz-heidelberg.de;
 sequenced by AGOWA (Berlin/Germany) within the cDNA sequencing
 consortium of the German Genome Project.
 No s1 sequence available.
 This clone (DKFZp686P1216) is available at the RZPD in Berlin.
 Please contact the RZPD: Resourcenzentrum, Heubnerweg 6, 14059
 Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.
LOCATION/QUALIFIERS
 1. .595
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="DKFZp686P1216"
 /dev_stage="adult"
 /lab_host="DH10B"
 /clone_lib="686 (synonym: hlcc3)"
 /note="Vector: pTIPLEX2; Site_1: SfI1A; Site_2: SfI1B;
 cDNA-collection"

FEATURES
SOURCE

ORIGIN

Query Match 14.6%; Score 69; DB 1; Length 595;
 Best Local Similarity 100.0%; Pred. No. 1e-07;
 Matches 69; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 403 GCGAGGGAGGAGGAGCAGCAGACAGTCACAGGCCCTGACAAAACGTC 462
 Db 1 GCGAGGGAGGAGGAGCAGCAGACAGTCACAGGCCCTGACAAAACGTC 60

RESULT 10
LOCUS AU140869 787 bp mRNA, linear EST 05-AUG-2002
DEFINITION Homo sapiens cDNA clone PLACE4 human sequence.
ACCESSION AU140869.1 GI:11002390
VERSION EST.
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
 Mammalia; Butharia; Chordata; Craniata; Vertebrates; Euteleostomi;
 Mammalia; Butharia; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 787)
AUTHORS Ota,T., Suzuki,Y., Saito,K., Ishii,S., Yamamoto,J., Sugiyama,T., Nishikawa,T., Nakamura,Y., Sugano,S., Masuho,Y. and Isogai,T.
TITLE HRI human cDNA Project (Ota,T., Nakamura,Y., Sugano,S., Masuho,Y., Saito,K., Ishii,S., Yamamoto,J., Sugiyama,T., Nishikawa,T., Nakamura,Y., Sugano,S.,

JOURNAL Masuho,Y., Isogai,T.
 COMMENT Unpublished (2000)
 Contact: Takao Isogai
 Genomics Laboratory
 Helix Research Institute
 1532-3 Yata, Kai-barazu, Chiba 292-0812, Japan
 Tel: 81-48-52-3975
 Fax: 81-48-52-3986
 Email: genomics@hri.co.jp
 HRI human cDNA project; 5' - & 3' -end one pass sequencing: Helix
 Research Institute; cDNA library construction: Department of
 Virology, Institute of Medical Science, University of Tokyo, and
 Helix Research Institute
 FEATURES Location/Qualifiers
 Source 1..78
 /organism="Homo sapiens"
 /mol_type="mRNA"
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 /tissue_type="placenta"
 /clone_id="PLAC4"
 /note="Vector: pME18SPL3"
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 Best Local Similarity 61.9%; Pred. No. 1.2e-07;
 Matches 130; Conservative 0; Mismatches 72; Indels 8; Gaps 1;
 Qy 262 AACTGAAATAGAGGGAAAAAAGGGGGACAAAGAGGGAGAAATGAGGGAGGG 321
 Db 2 AATATGAGACAGAGGGAAAGGAAGAGAAAATGGGAAAACTGAGGGAGGG 61
 Qy 322 GACAGAGGACACTGATAATAGGCCACACCATGACCCATGACCCACTGATGCTGAGGACTCC 381
 Db 62 GAGAGAGGGTGTACCTGGCAGGGCTTACCC-----CATGACCTGGAAAGTCTCC 113
 Qy 382 TGCCTCTAGAAAGGACTCTGGCAGAGGGAGGAAGGAGCACTGACAGCA 441
 Db 114 TGCCCTGGAGGGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAG 173
 Qy 442 GCGTTGACAAAGGTCTGGCTGAACTCAAGC 471
 Db 174 CCCTGACTACGATTCTGGGCCAGGC 203
 RESULT 11
 LOCUS CD686649 552 bp mRNA linear EST 25-JUN-2003
 DEFINITION EST3170 human nasopharynx Homo sapiens cDNA, mRNA sequence.
 ACCESSION CD686649
 VERSION 1
 KEYWORDS EST
 ORGANISM Homo sapiens (human)
 SOURCE Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE Liu X.-Q., Zhou,Y., Zhang,L.-J., Xu,H., Chen,H.-K., Pan,Z.-G. and
 Zeng,Y.-X. (2003) Unpublished (2003) Transcriptional Gene Expression Profile of Human Nasopharynx
 Contact: Yixin Zeng
 Cancer Center
 Sun Yat-Sen University
 651 Dong-Peng Road East, Guangzhou 510060, China
 Tel: 86-1380-970-743
 Fax: 86-20-8775-4506
 FEATURES Source 1..552
 /organism="Homo sapiens"
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 /db_xref="SAXON:9606"
 ORIGIN
 Query Match 14.3% Score 67.6; DB 6; Length 552;
 Best Local Similarity 94.6%; Pred. No. 2.4e-07;
 Matches 70; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 Qy 398 TCAGGGCAGGGAGGAGGAGGAGGAGCTACAGCAGGAGACTCACAGCTGACAAAGCTT 457
 Db 11 TTATGGCGGGAGGAGGAGGAGCTACAGCAGGAGACTCACAGCTGACAAAGCTT 70
 Qy 458 CCTGGAACTCAAGC 471
 Db 71 CCTGGAACTCAAGC 84
 RESULT 12
 LOCUS BM82943 220 bp mRNA linear EST 06-MAR-2002
 DEFINITION K-BST0101950 S9SNU601 Homo sapiens cDNA clone S9SNU601-52-B11 5',
 ACCESSION BM82943
 VERSION BM82943.1
 KEYWORDS EST
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 220)
 AUTHORS Kim,N.S., Han,Y., Oh,J.H., Lee,J.Y., Ahn,H.Y., Chu,M.Y., Kim,M.R.,
 Oh,K.J., Cheong,J.-E., Sohn,H.Y., Kim,J.M., Park,H.S., Kim,S. and
 Kim,Y.S.
 TITLE 21C Frontier Korean EST Project 2001
 JOURNAL Unpublished (2002)
 COMMENT Contact: Kim YS
 Genome Research Center
 Korea Research Institute of Bioscience & Biotechnology
 52 Eoam-dong Yuseong-gu, Daejeon 305-333, South Korea
 Tel: +82-42-860-4470
 Fax: +82-42-860-4409
 Email: yongsung@mail.kribb.re.kr
 Plate: 52 row: B column: 11
 High quality sequence stop: 220.
 FEATURES Source 1..220
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 /mol_type="mRNA"
 /db_xref="S9SNU601"
 /sex="M"
 /tissue_type="Ascidites"
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 /lab_host="TOD10P"
 /clone_id="S9SNU601"
 /note="Organ: Stomach; Vector: pME18-PL3; Site 1: Xhol; Site 2: Xhol; The poly (A)+ RNA was dephosphorylated with bacterial alkaline phosphatase (BAP) and then decapped with tobacco acid pyrophosphatase (TAP). The decapped intact mRNA was ligated with DNA-RNA linker including SfiI site by treatment of T4 RNA ligase and the first strand cDNA was synthesised with Superscript II using SfiI oligo-dT primer. After first strand synthesis, RNA was degraded by NaOH treatment and cDNA was amplified by PCR reaction. The PCR products were digested with SfiI and cloned into DraIII- digested pME18S-PL3 vector. The obtained cDNA vectors were used for transformation of competent cells E. coli Top10F' by electroporation method. The cDNA libraries constructed by this method are full-length enriched cDNA library."

ORIGIN

Query Match 14.2%; Score 67; DB 4; Length 220;
Best Local Similarity 100.0%; Pred. No. 2.8e-07;
Matches 67; Conservative 0; Mismatches 0; Indels 0;
Gaps 0;

Qy 405 AGGGGAGAAGGACAGGAGACAGTACAGCAGCCTGACAAAACGTTCTCGAA 464
Db 1 AGAGGGAGAAGGACAGGAGACACTACAGCACCCCTGACAAAACGTTCTCGAA 60

Qy 465 CTCAAGC 471
Db 61 CTCAAGC 67

RESULT 1.4

BM7524422 LOCUS S9SNU601 Homo sapiens cDNA clone S9SNU601-6-B10 5', mRNA sequence.

BM836430 DEFINITION K-EST0112089 S9SNU601 Homo sapiens mRNA sequence.

BM836430 VERSION EST. 06-MAR-2002

BM836430 KEYWORDS EST. GI:119082100

BM836430 ORGANISM Homo sapiens (human)

BM836430 SOURCE Homo sapiens

BM836430 VERSION 1 (bases 1 to 275)

BM836430 KEYWORDS Mammalia; Eutheria; Chordata; Craniata; Vertebrata; Euteleostomi; Homo sapiens (human)

BM836430 ORGANISM Homo sapiens

BM836430 REFERENCES 1. (bases 1 to 275)

BM836430 AUTHORS Kim, N.S., Oh, J.H., Lee, J.Y., Ahn, H.Y., Lee, J.Y., Kim, J.M., Park, H.S., Kim, Y.S.

BM836430 TITLE 21C Frontier Korean EST Project 2001

BM836430 COMMENT Unpublished (2002)

BM836430 SOURCE Contact: Kim YS

BM836430 COMMENT Korea Research Institute of Bioscience & Biotechnology
52 Eoeun-dong Yuseong-gu, Daejeon 305-333, South Korea
Tel: +82-42-860-4470
Fax: +82-42-860-4409
Email: yongsung@mail.kribb.re.kr

BM836430 FEATURES Plate: 6 row: B column: 10
High quality sequence stop: 279.

BM836430 SOURCE Location/Qualifiers 1. 279

BM836430 /note="Organ: Stomach; Vector: pME18-FL3; Site: 1: XbaI; Site: 2: XbaI; The poly (A) + RNA was dephosphorylated with bacterial alkaline phosphatase (BAP) and then decapped with tobacco acid pyrophosphatase (TAP). The decapped intact mRNA was ligated with DNA-RNA linker including SfiI site by treatment of T4 RNA ligase and the first strand cDNA was synthesized with Superscript II using SfiI oligo-dT primer. After first strand synthesis, RNA was degraded by NaOH treatment and cDNA was amplified by PCR reaction. The PCR products were digested with SfiI and cloned into DraII- digested pME18S-FL3 vector. The obtained cDNA vectors were used for transformation of competent cells E. coli Top10^E by electroporation method. The cDNA libraries constructed by this method are full-length enriched cDNA library."

BM836430 ORIGIN

Query Match 14.2%; Score 67; DB 4; Length 279;
Best Local Similarity 100.0%; Pred. No. 3e-07;
Matches 67; Conservative 0; Mismatches 0; Indels 0;
Gaps 0;

Qy 405 AGAGGGAGAAGGACAGGAGACAGTACAGCACCCCTGACAAAACGTTCTCGAA 464

Db	1	AGGGGAGGAAGGAGCAGAGACAGAGACAGTCACAGCAGCCCTGACAAAACGTTCCCTGAA	60	Db	61	CTCAAGC	67
Qy	465	CTCAAGC	471				
Db	61	CTCAAGC	67				
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RESULT	15						
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LCUS DEFINITION	K-EST0111597 S9SNU601 Homo sapiens cDNA clone S9SNU601-65-F08 5', mRNA sequence.						
ACCESSION	BM836104						
KEYWORDS	BM836104.1 GI:19192513						
SOURCE	Homo sapiens (human)						
ORGANISM	Homo sapiens						
	Mammalia; Eutheria; Chordata; Craniata; Vertebrata; Buteleostomi; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Homo.						
REFERENCE	1 (bases 1 to 355)						
AUTHORS	Kim, N.S., Hahn, Y., Oh, J.H., Lee, J.Y., Ahn, H.Y., Chu, M.Y., Kim, M.R., Oh, K.J., Cheong, J.E., Sohn, H.Y., Kim, J.M., Park, H.S., Kim, S. and Kim, Y.S.						
TITLE	21C Frontier Korean EST Project 2001						
JOURNAL	Unpublished (2002)						
COMMENT	Contact: Kim YS Genome Research Center Korea Research Institute of Bioscience & Biotechnology 52 Eoeun-dong Yuseong-gu, Daejeon 305-333, South Korea Tel: +82-42-860-4470 Fax: +82-42-860-4409 Email: yongsung@mail.kribb.re.kr Plate: 65 row: P column: 08 High quality sequence stop: 35.						
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		/lab_host="Top10P"					
		/clone_lab="S9SNU601"					
		/note="Organ: Stomach; Vector: PME18-FL3; Site 1: XbaI; Site 2: XbaI: The poly (A)+ RNA was dephosphorylated with bacterial alkaline phosphatase (BAP) and then decapped with tobacco acid pyrophosphatase (TAP). The decapped intact mRNA was ligated with DNA-RNA linker including SfiI site by treatment of T4 RNA ligase and the first strand cDNA was synthesized with Superscript II using SfiI was Oligo-dT primer. After first strand synthesis, RNA was degraded by NaOH treatment and cDNA was amplified by PCR reaction. The PCR products were digested with SfiI and cloned into DraII- digested PME18-FL3 vector. The obtained cDNA vectors were used for transformation of competent cells E. coli Top10P by electroporation method. The cDNA libraries constructed by this method are full-length enriched cDNA library."					
ORIGIN							
Query Match	14.2%	Score 67;	DB 4;	Length 355;			
Best Local Similarity	100.0%	Pred. No. 3.1e-07;	Mismatches 0;	Indels 0;	Gaps 0;		
Matches	67;	Conservative					
Qy	405	AGGGGAGGAAGGAGCAGAGACAGTCACAGCAGCCCTGACAAAACGTTCCCTGAA	464				
Db	1	AGGGGAGGAAGGAGCAGAGACAGTCACAGCAGCCCTGACAAAACGTTCCCTGAA	60				
Qy	465	CTCAAGC	471				